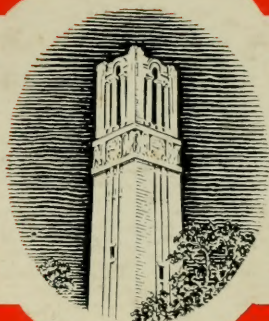


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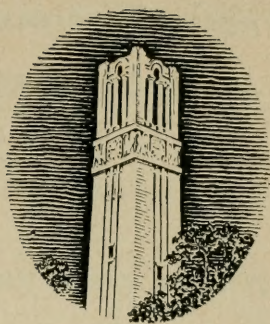


NORTH CAROLINA STATE COLLEGE

CATALOG

1956-1957, 1957-1958

NORTH CAROLINA STATE COLLEGE RECORD



NORTH CAROLINA STATE COLLEGE

OF

THE UNIVERSITY OF NORTH CAROLINA

CATALOG ISSUE

1956-1958

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AND 1957-1958**

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AND ENGINEERING • ESTABLISHED 1887**

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COLLEGE CALENDAR, 1956-57

FALL SEMESTER, 1956

September 10	Monday	General Faculty Meeting, 3 P.M. Freshman Assembly, 7 P.M.
September 10-13	Monday-Thursday	Freshman Orientation and Testing
September 14	Friday	Freshman Registration
September 15	Saturday	Upperclass Registration. Late Registration of \$5 payable by all registering after September 15.
September 17	Monday	Classes begin
September 22	Saturday	Last Day for Registration
September 29	Saturday	Last Day to add a course
October 6	Saturday	Last Day to Drop a Course without Failure
November 10	Saturday	Mid-term Reports
November 21	Wednesday	Thanksgiving Holiday begins at 1 P.M.
November 26	Monday	Classwork resumes. <u>Last Day for withdrawing from School without failures</u>
December 15	Saturday	Christmas Holidays begin
January 3, 1957	Thursday	Classwork Resumes
January 19	Saturday	Last Day of Classes
January 21-26	Monday-Saturday	Final Examinations
January 28	Monday	Awarding of Degrees for Graduating Students

SPRING SEMESTER, 1957

January 29	Tuesday	Orientation and Testing of New Students
January 30	Wednesday	Registration. Late registration fee of \$5 payable by all registering after January 30
January 31	Thursday	Classes begin
February 6	Wednesday	Last for Registration
February 13	Wednesday	Last day to Add a Course
February 20	Wednesday	Last day to Drop a Course without Failure
March 30	Saturday	Mid-Term Reports
April 13	Saturday	Last day for withdrawing from School without failures
April 17	Wednesday	Easter Holiday begins at 6 P.M.
April 25	Thursday	Classwork resumes
May 22	Wednesday	Last day of Classes
May 23	Thursday	Reading day
May 24-30	Friday-Thursday	Final Examinations
May 26	Sunday	Commencement

SUMMER SESSIONS, 1957—two six-weeks sessions

First Session

June 3	Monday	Freshman Orientation and Testing
June 4	Tuesday	Registration. Late registration fee of \$5 payable by all registering after June 4
June 5	Wednesday	First Day of Classes
June 10	Monday	Last Day for Registration
June 14	Friday	Last Day for Dropping Courses Without Failure
July 4	Thursday	Holiday
July 10	Wednesday	Last Day of Classes.
July 11, 12	Thursday & Friday	Final Examinations

Second Session

July 15	Monday	Freshman Orientation and Testing.
July 16	Tuesday	Registration. Late registration fee of \$5 payable by all registering after July 16.
July 17	Wednesday	First Day of Classes
July 22	Monday	Last Day for Registration
July 26	Friday	Last Day for Dropping Courses Without Failure
August 20	Tuesday	Last Day of Classes
August 21, 22	Wednesday & Thursday	Final Examinations

FALL SEMESTER, 1957

September 16	Monday	General Faculty Meeting, 3 P.M.
September 16-19	Monday-Thursday	Freshman Assembly, 7 P.M.
September 20	Friday	Freshman Orientation and Testing
September 21	Saturday	Freshman Registration
September 23	Monday	Upper-class Registration. Late Registration fee of \$5 payable by all registering after Sept. 21.
September 28	Saturday noon	Classes Begin
October 5	Saturday noon	Last day for Registration
October 12	Saturday noon	Last day to Add a Course
November 16	Saturday	Last day to drop a Course Without Failure
November 27	Wednesday	Mid-term reports
December 2	Monday	Thanksgiving Holiday Begins at 1 P.M.
December 14	Saturday noon	Classwork Resumes. Last Day for withdrawing from School without failures.
January 3, 1958	Friday	Christmas Holiday Begins
January 25	Saturday	Classwork Resumes
January 27-February 1	Monday-Saturday	Last Day of Classes
February 3	Monday	Final Examinations
		Awarding of Degrees for Graduating Students

SPRING SEMESTER, 1958

February 4	Tuesday	Orientation and Testing of New Students
February 5	Wednesday	Registration. Late registration fee of \$5 payable by all registering after February 5
February 6	Thursday	Classes Begin
February 12	Wednesday	Last Day for Registraton
February 19	Wednesday	Last Day to Add a Course
February 26	Wednesday	Last Day to Drop a Course without Failure
March 29	Saturday	Mid-Term Reports
April 2	Wednesday	Easter Holidays Begins at 6 P.M.
April 10	Thursday	Classwork Resumes
April 12	Saturday noon	Last Day for Withdrawing from School without Failures
May 28	Wednesday	Last Day of Classes
May 29	Thursday	Reading Day
May 30-June 5	Friday-Thursday	Final Examinations
June 1	Sunday	Commencement

SUMMER SESSIONS, 1958—two six-weeks sessions

First Session

June 9	Monday	Freshman Orientation and Testing
June 10	Tuesday	Registration. Late registration fee of \$5 payable by all registering after June 10.
June 11	Wednesday	First Day of Classes
June 16	Monday	Last Day for Registration
June 20	Friday	Last Day for Dropping Courses without Failure
July 4	Friday	Holiday
July 16	Wednesday	Last Day of Classes
July 17-18	Thursday & Friday	Final Examinations

Second Session

July 21	Monday	Freshman Orientation and Testing
July 22	Tuesday	Registration. Late registration fee of \$5 payable by all registering after July 22.
July 23	Wednesday	First Day of Classes
July 28	Monday	Last Day for Registration
July 31	Friday	Last Day for Dropping Courses without Failure
August 26	Tuesday	Last Day of Classes
August 27-28	Wednesday & Thursday	Final Examinations

Its (N. C. State's) general purpose is to so teach the principles and application of the sciences, illustrating sound theory by daily practice, as to make of its students useful and successful men, instead of mere intelligent drones.

Alexander Quarles Holladay
President, 1889-1899





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NORTH CAROLINA STATE COLLEGE

I. GENERAL INFORMATION

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NORTH CAROLINA STATE COLLEGE

ITS HERITAGE — — — — —

North Carolina State College is a community dedicated to the pursuit of inquiries into the nature of the world and man, and to the training of students in understanding and participating in such inquiries. Founded by legislative act of March 7, 1887, it is the State's technological institution of higher learning and Land Grant College.

Vitally important to the establishment of the College was the growing sentiment in North Carolina at that time to make the State more self-sufficient economically and less "dependent on the North for technical experts and manufactured articles of daily use." Further impetus was provided by the fact that although the Morrill Land Grant Act of 1862 authorized the use of public land or its equivalent in land scrip for the creation of an agricultural college in each state, North Carolina had not established such a specialized institution.

The North Carolina College of Agriculture and Mechanic Arts opened its doors for the first time on October 3, 1889, welcoming 45 students to a faculty of six teachers and to a campus of one building, one stable, two mules, one horse, and a 60-acre farm on which most of the students could "work out" their education. The first president was Colonel Alexander Q. Holladay, for whom the first building was later named.

In 1931, the General Assembly formed the Consolidated University of North Carolina, taking in the University at Chapel Hill, State College at Raleigh, and the Woman's College at Greensboro. Since consolidation, State College has developed rapidly to meet the growing industrial needs of North Carolina and the increasing interest in scientific agriculture within its borders.

Following World War II, when college personnel and facilities were involved primarily in the national defense effort, State College witnessed a tremendous expansionary movement. Returning service men nearly tripled any previous enrollment, and today's student body has stabilized at twice the pre-war level. A much expanded building program has provided more than fifteen million dollars in augmented physical facilities, so that State College today is one of the best-housed and best-equipped technical schools in the nation. Through these expanded operations, State College has grown in size and service to the people of North Carolina and in prestige throughout the nation and the world for its diverse programs in teaching, research and extension services. Now in its 67th year of service, the College has a regular enrollment averaging 5,000 in a \$30 million plant, on a campus of 72 major buildings, seven schools, 48 departments, with a teaching staff of 500 and a total staff of nearly 2,000, including administrative, extension, and research personnel across the State.

Students at State College can be justly proud of its rich heritage, including the well-trained alumni who are helping to build a better world by applying their technical knowledge to the variety of social problems that occur to men living in groups. Their important contributions range from building bridges over giant chasms to designing and constructing homes and buildings which are pleasant, comfortable and harmonious with modern ways of living; from building dams and power plants which permit irrigation and give light and power to millions; to teaching farmers all that science has learned about agriculture; from clothing the civilized world in the finest and most durable raiment the textile industry can produce to preserving and replanting our forests; from building highways throughout the land to creating new magic in chemistry and ceramics; from developing and conserving our natural resources to extending the frontiers of knowledge about all these matters through research projects.

ITS SERVICES AND DIVISIONS

The major objective of North Carolina State College is to provide an opportunity for students to obtain the highest level of specialized technical training and, at the same time, the broad general education which is a basic prerequisite to specialization. The College has taken the position that man is first a citizen and then a specialist. He must be able to participate as a full-fledged member in the life of the community and to make informed judgments about the great variety of problems which the citizen faces. In working toward this broad objective, State College is organized into seven main instructional divisions:

School of Agriculture

School of Design—Architecture and Landscape Architecture

School of Education—Agricultural and Industrial

School of Engineering

School of Forestry

School of General Studies—Humanities

School of Textiles

With the exception of the School of General Studies, each of these divisions offers numerous curricula leading to baccalaureate degrees. These curricula are explained in detail in Part III of this bulletin. In addition, through its Graduate School, the College offers advanced degrees: Master or Master of Science in various departments of the Schools of Agriculture, Education, Engineering, Forestry and Textiles; Doctor of Philosophy in certain curricula in Agriculture, Engineering, and Forestry. The School of General Studies, while it does not grant degrees, works with all State College students in the areas of the liberal arts. It is that part of State College especially concerned with the nature of man, the ideas and institutions which he has built and which in turn have helped to shape his nature, the relation between him and his fellows, and the world in which he lives.

Other divisions of the College are the North Carolina Agricultural Experiment Station, The College Extension Division, The North Carolina Agricultural Extension Service, and The Institute of Statistics. Allied agencies with headquarters on the campus include the United States Bureau of Mines Regional Laboratories; the state office of the Agricultural Stabilization and Conservation Administration; and offices of the State center of the United States Department of Agriculture.

The services of State College reach the citizenry of the state through six principal ways: (1) resident instruction; (2) off-campus instruction in established courses through the College Extension Division; (3) off-campus demonstration through the Agricultural Extension Service; (4) special instruction in technical institutes; (5) industrial and agricultural research—both basic and applied; and (6) direct contact with the home through the media of radio and television. All of the research and instruction at State College are keyed to problems in the economic and cultural life of the State and region, and seek to extend the agricultural and industrial development of the whole area.

ITS CAMPUS

In the broadest sense, the campus of North Carolina State College extends, through its services, to the boundaries of the State and beyond into the whole southern region. But the focal center of these widespread activities is the college campus in Raleigh, the State's historic capital city, where students have access to a rich reservoir of art treasures, library facilities, churches, and other cultural assets.

Adjoining the central campus at Raleigh are the college farms: 545 acres for poultry, 1,300 acres for dairying, and additional plots allocated to laboratory forest woodlands, swine, beef-cattle, and sheep farms operated by the Department of Animal Industry, and experimental plots for the Horticulture Department. In addition to these holdings in the Raleigh area, the State College Experiment Station operates a number forest farms in every climatic and geographical area of the state, and the School of Forestry has large holdings of experimental woodlands in the Coastal Plain, the Piedmont, and the mountain regions of North Carolina.

Recent building additions to the main campus include two new dormitories, eleven new and four renovated teaching, research-extension buildings, a new library, Reynolds Coliseum, a modern College Union, and a nuclear reactor for the development of peacetime atomic research. The State College campus has grown from colonial and classical architecture on the old or east campus to the latest expression in modern architecture on the new or west campus. Good examples of the traditional east campus are Holladay and Pullen. Good examples of the modern west campus are the College Union and Burlington Laboratory.

Of the buildings, new and old, a few deserve special mention:

The Memorial Tower . . . a 116-foot campanile of white Mount Airy granite, designed by William Deacy, begun by alumni in 1921 as a monument to the 33 State College men who lost their lives in World War I, expanded in 1937, and completed in 1949.

Andrew Johnson House . . . birthplace (1808) of the 17th President of the United States, a tiny, gambrel-roof frame structure, removed from original site on Fayetteville Street to Pullen Park, and in 1937 moved here (admission on application to keeper).

Holladay Hall . . . oldest building on campus, once the total college plant, now completely remodeled inside, housing central administration.

The YMCA . . . a traditional landmark in the heart of the old campus, recently remodeled, serving the religious and social life of the college.

William Neal Reynolds Coliseum . . . one of America's largest indoor stadiums, seating 12,500 for sports events and more for stage events using the floor, attracting nation-wide basketball games, ice-shows, agricultural meetings, symphonies, variety shows, and lecturers.

Burlington Laboratory . . . home of the Nuclear Reactor, which has attracted national attention as first nuclear pile to be used entirely for teaching and research, first to be operated on any college campus as a non-AEC reactor, first to be open for public inspection.

D. H. Hill Library . . . a modern building providing shelves for 400,000 volumes, designed to seat 900 readers, with dozens of private study carrells and conference rooms and well-lighted-ventilated reading rooms. Collection now 140,000 excluding gov't documents and pamphlets.

College Union . . . one of nation's most modern student-faculty activities centers, with a main lounge, cloak room, snack bar, dining room, 2 private banquet rooms, ballroom, self-operating elevator, several telephones, direct telegraph connection, TV sets, Quiet Room, library game room, barber shop, 160-seat theater, private rooms with a private balcony, 7 meeting rooms, and hobby shop.

The Print Shop . . . one of the finest college printing plants in the nation, using one of the larger cylinder presses, automatic stapling and folding equipment, and other regular presses, linotype machines and equipment for printing, binding, designing, and ruling.

Clark Infirmary and Leazar Dining Hall . . . modern buildings, well-equipped for their services to the student body.

Other points of interest . . . are the modern greenhouses accompanying Williams, Gardner, and Kilgore halls; Animal Disease Laboratory, Pulp and Paper Laboratory, and TV Studios along Western Boulevard, Frank Thompson Gym and Riddick Stadium.

May it (N. C. State) rejoice in work, not dreaming dreams but doing deeds.

May it ennoble toil, abolish drudgery, harness nature to human service, and create for all mankind larger and better health, wealth, comfort, and happiness!

May its mission in life, its achievements in education, its brilliant guiding star be the wise words of the sacred seer: "There is nothing better than that a man should rejoice in his work"

George Tayloe Winston
President, 1899-1908





THE COLLEGE UNION • A HOME AWAY FROM HOME

II. REGULATIONS AND PROCEDURES FOR STUDENTS

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ADMISSION REQUIREMENTS — — — — —

First, an application form must be submitted. These forms, which indicate completely what information is required, may be obtained from and should be submitted to:

Director of Admissions
Holladay Hall
North Carolina State College
Raleigh, North Carolina

Applications for admission will be considered between February 1 and September 1 for the fall semester; and between October 1 and January 1 for the spring semester. For admission of Graduate Students, see the special catalog of the Graduate School which may be obtained from:

Dr. D. B. Anderson, Dean of the Graduate School
Gardner Hall
North Carolina State College
Raleigh, North Carolina

Courses of study at North Carolina State College assume the entering student has competence in oral and written expression, efficient study and reading skills, the mathematical skills normally gained in secondary school instruction, and broad preparation in approved fields of study. By recent action of the Board of Trustees all students entering any unit of the Consolidated University in September, 1957, and later will be required to show competence by making satisfactory scores on entrance examinations.

The College enrolls undergraduate students in four classifications: regular (degree-seeking students); special (no college credit); unclassified (may be changed subsequently to regular status using credits earned while unclassified); and auditor (no credit).

To be admitted to a department as a regular, degree-seeking student, freshmen must submit a certificate of graduation from an accredited high school or, in the case of graduation from a non-accredited high school, pass a special entrance examination. Regular, degree-seeking transfer students must present official transcripts of work taken at other institutions. Detailed regulations which apply in all cases are discussed in the following paragraphs and should be examined carefully by the prospective student.

ADMISSION BY CERTIFICATE OF GRADUATION — — — — —

The applicant should be (a) at least 16 years of age; (b) of sound moral character; and (c) the graduate of an accredited high school. He should present at least 15 units of completed high school work, 8½ of which are distributed as follows:

English (or English and Speech)	4 units (see below)
Mathematics	2½ to 4 units (see below)
History and Social Science	1 or 2 units (see below)
Natural Science	1 or 2 units

The remainder of the 15 units will be accepted from other courses, except that not more than one unit will be accepted from activity courses such as physical education, music, band, or military science.

ENGLISH COMPOSITION

All students entering North Carolina State College for the first time are tested for their proficiency in using the English language. Students deficient in this area are required to take a special non-credit course in English composition and to make satisfactory progress in the work before taking the regular credit course in English. Students who make high

marks on this examination and who demonstrate unusual proficiency in special written exercises may be excused from taking the regular credit course in English composition. Instead, they receive credit for the course and proceed to advanced courses.

Foreign students who do not have a satisfactory command of English are required to take special courses in English for Foreign Students until they are skillful enough in the language to continue their work.

MATHEMATICAL PREPARATION

Since mathematics is of such great importance in present-day technical curricula, State College requirements are somewhat rigorous in this area of the student's preparation. One and one-half units of algebra and one unit of plane geometry are considered minimum preparation for all curricula. Students presenting only one unit of algebra or no plane geometry must take special non-credit courses to meet these deficiencies. Courses scheduled to meet deficiencies in these areas will not carry college credit. Registration in regular college courses in mathematics will be delayed until this work is completed. Students in Engineering, Architecture, Agricultural Engineering, Agricultural and Biological Chemistry, and Mathematics Education are required to present solid geometry for admission. A special non-credit course is offered for applicants who have not taken the work in high school. This deficiency must be removed before the student begins his regular mathematics sequence in curricula named. It is wise for the student planning to enter any of these curricula to make every effort to complete required courses in mathematics in high school before applying to State College, or to take them in summer school, or by correspondence, at the College prior to entering as a freshman in the fall.

HISTORY AND POLITICAL SCIENCE

If the student does not offer American History for admission, he must complete one semester of American History or American Government as part of his college program. If he is officially registered for the course, he will receive college credit for it. Foreign students are required to complete a course in American History before graduation.

— — — — — ADMISSION BY SPECIAL EXAMINATION

Students who have been graduated from non-accredited high schools and mature students who have not completed high school work may qualify for acceptance as students working for a degree by passing entrance examinations. These examinations will cover approximately the work expected of regular high school graduates.

— — — — — ADMISSION AS A MATURE SPECIAL STUDENT

Mature students who do not wish to work for a degree may be admitted to the college in this category upon recommendation of the Dean of the school concerned and upon submission of satisfactory records of education and experience. The usual college entrance requirements may be waived for mature students, but regular college rules of scholarship will apply after admission. The special student may not represent the College in any inter-collegiate contest or become a member of any fraternity, professional or social.

— — — — — ADMISSION AS AN UNCLASSIFIED STUDENT

Admission as an unclassified student requires the recommendation of the Dean of the school in which the student wishes to enroll. Unclassified students must meet the same requirements as regular students and must adhere to the rules and regulations of the College. If at a later date an unclassified student wishes to change to regular status, his credits must be evaluated for his major. Credits earned by the student while he is unclassified will be accepted only if he has completed the proper prerequisites. Where credit is allowed, the student will receive the grades he earned in the courses accepted for credit.

ADMISSION BY PRESENTING EVIDENCE OF CREDIT EARNED FROM ANOTHER ACCREDITED INSTITUTION OF HIGHER LEARNING — — —

All students who transfer to State College from other colleges must present official transcripts of work taken at the other institutions. A complete separate, official transcript must be sent directly to the Admissions Office from each institution attended. The prospective transfer student must be eligible to return to the institution last attended. The student's record, if of average grade or above, will be evaluated by the Dean or Director of Instruction of the School in which the student wishes to register. A \$2.00 transcript evaluation fee, payable to the Office of Registration, is charged for this service. Evaluation by the school will be final. Students whose records show below average work cannot be admitted to State College unless such admission is approved by the Admissions Committee. Failure of the student to present transcripts from all colleges previously attended may result in his dismissal from College.

ADMISSION AS AN AUDITOR — — — — —

Students who wish to audit courses must obtain the permission of the instructor and department head and register through the Office of Registration. The participation of auditors in class discussion or in tests or examinations is optional with the instructor. Auditors receive no credit for the course; they are, however, expected to attend classes regularly.

RESIDENCE — — — — —

State College is unable to accept all the out-of-state applicants for admission. By trustee action, the College can accept only highly qualified out-of-state students. The administration has ruled that all students whose parents have not been domiciled in North Carolina for more than six months immediately preceding the day of their first enrollment in the institution shall be termed out-of-state students, with the following exceptions:

Students twenty-one years of age at the time of their first matriculation who have resided in North Carolina for more than one year, other than by virtue of attendance at another college or temporary military assignment, preceding the day of their first enrollment.

Children of regular employees of the Federal Government stationed in the State of North Carolina; and

Children of regular employees of the Federal Government who are employed outside of the State, but who through law are permitted to retain their North Carolina citizenship.

The furnishing of incomplete or incorrect information regarding residence may result in the student's dismissal from college.

The Registration Office determines each student's residence status on the basis of existing information and interpretation of regulations. Appeals from such classification may be made to the Consolidated University Administration on forms obtainable from the Registration Office.

GRADES AND SCHOLARSHIP — — — — —

North Carolina State College operates on a credit-point system. Semester credits represent the number of hours of work completed; quality points are determined by the grades earned.

A	Excellent	4 quality points for each credit hour.
B	Good	3 quality points for each credit hour.
C	Average	2 quality points for each credit hour.
D	Passing	1 quality point for each credit hour.
F	Failing	0 quality point for each credit hour.

Inc. Incomplete

Abs. Absent from examination

EXPLANATIONS

At the discretion of the teacher, a student who has at least a C average in a course may be given an **incomplete** grade for work not completed because of a serious interruption in the student's work not caused by his own negligence. An incomplete grade must be made up during the next semester the student is in residence, unless the department involved is not able to allow the make-up. In this latter case, the department will notify the student and the Office of Registration when the incomplete must be made up. Any incomplete not removed during the period specified by the department will automatically become a failure and will be recorded as "Fi".

A grade of "Fa" as recorded for an unexcused absence from examination. If an absence from examination is excused by the Dean of Students, the student must take the examination during the next semester he is in residence or a grade of "Fa" will be recorded.

A grade of "Fd" is posted if a student has unofficially dropped a course for which he has been scheduled, or if he had officially dropped after the final date for dropping courses without failure. A failure may be made up only by repeating the subject. Such a repeat course must be regularly scheduled on the student's roster.

NOTE: Any student who fails a course within two semesters of graduation and who fails only one course during that semester may apply to the Office of Registration for permission to remove that failure by standing for reexamination on the total subject matter of the course.

If a senior fails more than one course during the semester and removes all but one of these deficiencies by repeating the course or courses, and if he has not had another reexamination, he may apply at the end of his last semester in residence for permission to take a reexamination.

When such a reexamination is taken to remove an "F", only the reexamination will be counted. And a senior who has passed a reexamination will have his grade for this course changed from "F" to "R", which is equivalent in quality points to a grade of "D". A fee of \$5.00 will be charged for such a reexamination.

During the first two years of residence at this institution and the summer sessions immediately following (or until 65 semester hours have been earned in residence and/or by transfer), students may repeat courses passed for the purpose of improving their understanding of the basic subject matter. Such a repeat must be made in the next subsequent semester in which the course is offered. When a course is repeated, both grades will be considered in the college scholarship standards. Thereafter a student may repeat a course previously passed only by auditing the course. At the student's request, the teacher may allow an auditor full participation in all class activities. Courses audited will count the same as credit courses in computing a student's academic load.

Students progress from one class to a higher class after they have completed the required number of hours for the higher classification. At the present time students are classified at the beginning of the fall semester and at no other time.

Freshman	140 or more semester hours
Sophomore	1-29 semester hours of earned credit
Junior	30-64 semester hours of earned credit
Senior	65-99 semester hours of earned credit credit
Professional (School of Design)	100 or more semester hours of earned

At the end of his freshman year, a student must have an over-all 1.5 average (1½ times as many quality points as total hours carried) to be eligible to continue. A freshman must meet this requirement by the end of the summer after he has completed two full semesters (not necessarily both in one school year or at this institution.)

At the end of his sophomore year, and each succeeding year, a student must have an over-all 2.0 average (twice as many quality points as total hours carried) to be eligible to continue. A student must meet this requirement for the first time by the end of the summer after he has completed four full semesters (not necessarily all in two school years). A transfer student (with or without credit) who has attended some other college as much as two semesters must meet this requirement the first both in one school year or at this institution).

Any student who falls below a 1.5 average for the work scheduled for any semester will be placed on scholastic probation, and will have his course load for the succeeding semester regulated by his Dean or Director of Instruction. A student is scholastically eligible for graduation when he has satisfied all the specific requirements of his department, the School, and the College, and has at least a C average, twice as many quality points as total credit hours taken.

TUITION AND FEES — — — — —

Charges for tuition and fees vary according to (1) the student's status as a resident or non-resident of North Carolina at the time of his first enrollment; (2) type of student (regular undergraduates, special or unclassified undergraduate, auditor or graduate student); and (3) to a minor degree the curriculum in which the student is enrolled.

An application for admission must be accompanied by an application fee of \$5. This fee is refunded to students whose applications are not approved. It is forfeited by applicants who are accepted but who do not enroll.

Tuition and fees are payable in advance each semester, prior to registration day, upon receipt of a statement from the College Cashier (students desiring to do so may pay monthly installments, upon approval of application to Business Office.) All charges are subject to change without notice, but the charges in effect currently are as follows:

Regular Undergraduate Students:

School	In-State Students		Out-of-State Students	
	First Semester	Second Semester	First Semester	Second Semester
Agriculture	\$145	\$138	\$320	\$313
Design	144	138	319	313
Education:				
Agricultural Education	145	138	320	313
Others	142	136	317	311
Engineering	144	138	319	313
Forestry	154	138*	329	313*
Textiles	144	138	319	313

* Add \$10 if not registered in first semester.

Late Registration Fee—All students, graduate and undergraduate, who fail to register on dates scheduled must pay a \$5.00 late registration fee.

Special and Unclassified Students:

These students, if living in the college community or registering for more than six hours of course work, will pay full undergraduate tuition and fees. If living outside the college community and carrying six hours or less, these students will pay each semester a registration fee of \$5, plus \$7.50 per credit hour if residents of North Carolina or \$15.00 per credit hour if non-residents.

Auditors:

Subject to academic regulations regularly enrolled undergraduate students may audit courses without additional charge. Those not regularly enrolled, or registering for audits only, will pay the rates applicable to special or unclassified students.

Graduate Students:

Applicants interested in graduate work may receive a schedule of fees upon application to the Graduate School.

Commencement fee:

A fee of \$7, covering cost of diploma and rental of cap and gown, is charged candidates for the baccalaureate degree during the last semester before the degree is awarded.

Deposits:

(a) As partial security for military uniforms, library books, laboratory equipment, etc., a general deposit of \$20 is required to be paid by regularly enrolled undergraduate students at the time of their first enrollment (see also under "Refunds").

(b) Certain departments are allowed to collect small deposits in addition to the general deposit referred to above, for such things as room keys, lockers, etc. In such instances departmental regulations will apply.

Staff:

Full-time staff members may register for course work at a flat rate of \$15 per semester. The number of courses allowable will be limited by administrative regulations. This payment does not include non-academic fees, and none of the privileges attendant upon the payment of such fees are allowed.

Audits:

Subject to academic regulations, regularly enrolled graduate or undergraduate students may audit courses by registering for them. The first audit will be disregarded in determination of course load on which tuition and fee payments are based, but any additional audits are to be added to the course load at full credit hour value. Students registered for audits only will pay the rates applicable to special or unclassified students. Full-time staff members may register for and audit one course per semester without charge.

Professional students in engineering:

Students in the various fifth-year professional curricula described on pages 133-134 of catalog will be charged on same basis as "Special and Unclassified Students."

Thesis preparation:

Graduate students who have completed course requirements and are in residence for thesis work only will be charged \$15 per semester for tuition, plus all non-academic fees. Graduate students in residence will not be permitted to register "for thesis work only" for two consecutive semesters. Graduate students not in residence who have completed all requirements for the degree sought except for the thesis will be required to register for the term in which final requirements for the degree are to be completed and to pay \$10 tuition fee.

ROOM RENT

Rooms in the College dormitories rent for \$69.50 including a key deposit of \$2.00 per student semester. Janitorial service is supplied, but each

student is required to furnish his own linens, blankets, and pillow. Room rent is payable in advance prior to the beginning of each semester, at times announced by the Supervisor of Dormitory Rentals. Room rent is charged strictly on a semester basis. If a student occupying a room during the first semester reserves and pays rent for the second semester, he may leave his belongings in the room between semesters. If, however, a student occupying a room during the first semester does not reserve it for the second semester, he must vacate the room and turn in his keys at the end of the first semester. Rent will be charged at the rate of \$1.00 per day between terms and until the room is vacated and the key turned in. All rooms must be completely vacated and keys turned in at the end of the second semester, except those rooms which have been reserved for the summer session. These rooms must be vacated at the end of the summer session.

BOARD

Meals are served cafeteria style, and the cost depends upon the individual student. Average cost would be approximately \$500 per year.

BOOKS AND SUPPLIES

The cost for books and supplies is variable, depending upon the curriculum in which the student is enrolled. A reasonable estimate would be \$75 per year, but students who have to buy drawing supplies and slide rules have an additional original outlay. All books and supplies are paid for in cash as purchased.

ESTIMATED ANNUAL COST

Total expenses of a full-time student from North Carolina, exclusive of clothing, pocket money, travel, and other incidentals, need not exceed \$1,100. Out-of-state students will need an additional \$350.

PAYMENT SCHEDULE

Tuition and fees are payable in advance each term, on registration day. Students desiring to do so may pay on an installment basis, but must apply to the Business Office for such privilege prior to registration day. A service charge of \$1 per semester is made for this arrangement. Any payment, either regular or installment, not made when due requires an additional late payment charge of \$1.

LATE REGISTRATION

Registration schedules are set for specific days, and certain definite procedures are outlined. A student has not completed registration until all the required steps are taken. All students, graduate and undergraduate, who fail to register on dates scheduled must pay a \$5.00 late registration fee.

REFUNDS

TUITION AND FEES

A student who withdraws from school on or before the last day for registration will receive a refund of the full amount paid, less a \$5 registration fee. On withdrawal later than the period specified, no refund will be made.

ROOM RENT

A student who withdraws from school will receive a refund of the amount paid for room rent, less \$1.00 per day for the time the room is occupied. A student who vacates his room for any reason will receive no refund.

GENERAL DEPOSIT

The general deposit is refunded when a student has completed the requirements for a degree or has dropped out of school. The student must apply to the Business Office for the refund. Refund will be made by check within 30 days after the application is received.

REFUND COMMITTEE

In some instances circumstances justify the waiving of rules regarding refunds. An example might be withdrawal from school, because of illness. Students have the privilege of appeal to the Refund Committee when they feel that special consideration is merited. Applications for such appeals may be secured from the Dean of Students.

STUDENT ACTIVITIES AND SERVICES

State College makes every effort to provide the student with surroundings which are pleasant and conducive to intellectual growth. Respecting the student as an individual, the college assures him the maximum of personal liberty within the limits necessary for orderly progression of classwork and consistent with respect for the rights of others. In return, he is expected to pay serious attention to his purpose in attending college and to observe rules of conduct consistent with maturity. Through the various services and activities identified with everyday life on the campus, as well as through the several extracurricular organizations and functions, the student at State College has excellent opportunity for acquiring experience in group leadership and community living which he may take with him into his professional career.

As the student progresses in his development, especially after his freshman year, he will find many opportunities to increase his growth in citizenship by participating in the activities of his academic class and of the student body in general. Following is a survey of the various activities at State College.

STUDENT GOVERNMENT AND HONOR SYSTEM

When he enters State College, the student becomes a member of a self-governing community.

Legislative, executive, and judicial authority, insofar as student affairs are concerned, rests with the Student Government which operates within the framework of over-all college Administration. The Student Government members and Judicial Board members are elected in campus-wide elections. The Student has a voice in his own government by participating in these elections. Often in general elections he is asked to vote on proposed changes in regulations which affect the student body or on changes in the Student Government constitution.

The student also becomes part of an Honor System which expects him to adhere to its general aims: honesty in classwork and honor in general conduct.

CLUBS AND SOCIETIES

Through the various honorary, professional and technical, and social organizations at State, the interested students find many opportunities to participate in activities that appeal to them and to meet others who have similar interests.

College Honorary

Golden Chain—Senior leadership

Blue Key—Junior leadership

Thirty-and-Three—Sophomore leadership

Phi Eta Sigma—Freshman scholarship

Phi Kappa Phi—Scholarship, Seniors and Graduate Students

Professional and Technical

Each school at State College sponsors or supervises a large number of professional and technical societies and clubs. Students in every area of instruction are encouraged to join with their fellow students in pursuing their common interests. Many of these organizations contribute greatly to the student's professional and social growth.

Social Fraternities

Seventeen national social fraternities have chapters at State College. Each has two representatives on the Interfraternity Council, which has as its objectives promoting the general interests and welfare of the associated fraternities and insuring cooperation between them in their relations with the faculty, the student body, and the public in general.

STUDENT PUBLICATIONS

State College has a large number and variety of publications, both general and School-sponsored, edited and managed by student officers, with faculty members serving as advisers. Any student who wishes to

may gain journalistic experience and training in writing, editing, or managing regular journals and annuals.

The three general publications, *The Agromeck*, *The Student Broadcasting System* and *The Technician* are supported in large part by a publication fee, which is a part of each student's fees.

The Agromeck is the College Yearbook, providing a record of the classes and of the principal events of the school year. It recalls in pictures the varied activities of the student body throughout the year. *The Agromeck* is published for the entire student body under the sponsorship of the senior class.

Although it is not a "publication" in the strictest sense of the word *The Student Broadcasting System*, a carrier-current station with coverage limited to the campus, serves the same function through a different medium. It offers many opportunities for extra-curricular training in actual broadcasting techniques as well as training in administration and program planning. A member of the Intercollegiate Broadcasting System, the station is now preparing to receive and rebroadcast programs from other colleges and universities.

The Technician is the student newspaper, issued once a week and delivered to the dormitories and fraternity houses. Students living off the campus receive their copies of the newspaper by mail. *The Technician* serves as a forum for student expression as well as a medium for news of particular interest to State College students. Each incoming student receives a copy of *The Tower*, the College handbook, which contains detailed information about student organizations and activities.

Several of the Schools have their own publications, which are published under the general supervision of the particular School and deal with material of special interest to students in that School.

These publications include *The Agriculturist*, published by the School of Agriculture; *The PI-NE-TUM*, published by the School of Forestry; *The Southern Engineer*, published by the School of Engineering; *The Textile Forum*, published by the School of Textiles; and the *Publications of the School of Design*.

ATHLETICS — — — — —

In addition to voluntary programs of intramural and intercollegiate sports, State College requires freshmen and sophomores to enroll in credit courses in physical education.

INTRAMURAL

The college maintains an extensive program of intramural sports which is administered by the Department of Physical Education. Participation in these sports is purely voluntary; it does not receive college credit. Competition in twelve sports is engaged in by dormitory and fraternity leagues.

Sports used in the intramural program are correlated with those used in the required class work in physical education. Instruction in the sports is given in the classes, and opportunity for competition is provided in the intramural program. Winners in these competitions are awarded cups, shields, and trophies. An Intramural Advisory Board composed of representative students assists the director of the intramural program.

For intramural competition as well as for classes in physical education, Frank Thompson Gymnasium has a swimming pool, a large playing area for basketball, an auxiliary gymnasium with three handball courts, a room for wrestling, a locker room, and showers. Several fields are provided for intramural and recreational play. Five semi-hard-surface and nine hard-surface courts are available for tennis, with additional courts contemplated.

INTERCOLLEGIATE

Intercollegiate athletics at State College come under the supervision of a separate department of the college; policies governing intercollegiate

competition are recommended however, by the Athletic Council, composed of faculty, students, and alumni, in full accord with Atlantic Coast Conference rules of eligibility for intercollegiate contests. Membership of the Atlantic Coast Conference comprises, in addition to State, Duke, Wake Forest, the University of North Carolina at Chapel Hill, Maryland, Clemson, and South Carolina.

The program in intercollegiate athletics consists of the organization and training of "Wolfpack" teams in football, basketball, baseball, track, cross country, wrestling, swimming, tennis, golf, soccer, fencing, and rifle competition.

Facilities for intercollegiate athletics at State include Riddick Stadium, a 20,000-seat stadium for football; William Neal Reynolds Coliseum, a 12,000-seat arena for basketball; a 1,200-seat stadium for track; a 2,500-seat for baseball; four football practice fields; 12 tennis courts; a 25-yard swimming pool in Frank Thompson Gymnasium; and facilities in the Coliseum for wrestling, fencing, and other sports.

MUSIC

Students with previous experience find at State College many opportunities to continue their music, both vocal and instrumental. The State College Band and the Drum and Bugle Corps furnish music for all military parades by the ROTC. Freshmen and sophomores who are accepted on the basis of auditions and band requirements may enroll in the Band and receive credit for required military drill. The Band plays and marches at football games and at other campus and civic affairs. Membership in the Band comprises both ROTC and non-ROTC bandmen. After football season, the Band becomes the Concert Band, which plays frequent concerts on the campus. Credit is offered in the third and fourth years of participation.

The Concert Orchestra is composed of State College students and a number of Raleigh musicians. The orchestra presents frequent concerts, and smaller units from it provide music for numerous College functions.

The Men's Glee Club alternates with the orchestra and bands in giving concerts both on the campus and out of town.

STUDENT CENTERS

Students at State College find that a great deal of their extracurricular activity centers around two buildings, the College YMCA and the College Union. The YMCA has long served the College as a social and recreational center. With the completion of the new College Union Building, facilities for student affairs have been tremendously expanded. For the past several years the College Union has provided State College students with entertainment and with opportunities and facilities for recreation and relaxation. In 1954, for the first time, the Union had a building of its own. The newly completed building, realization of a dream of many years, offers to both students and faculty a variety of features. On the ground floor are a snack bar, a small dining room, game rooms, a barber shop, and free telephones. The main floor has an assembly and ballroom, a library, lounges, a gallery area for exhibits, and facilities for two small dining rooms. The second floor contains the College Union offices, a photographic darkroom, guest rooms, a quiet room, a room for listening to music, a theatre, a workshop, meeting rooms, and student organization offices.

The College Union serves a great many purposes. Its most obvious function is to provide a center where students can have fun and meet their friends. Through its widely varied program, however, it serves a deeper function—by introducing the student to the art of leisure-time living and by providing opportunities for leadership. Further, the College Union provides a showcase where students may display their talent in the form of exhibits, workshops, and entertainment which they have pro-

duced. Each student is invited to work on one of the College Union committees and to take an active part in the Union program.

In addition to the functions and activities housed in the College Union Building, many other activities, especially those of a religious, spiritual, and devotional nature, are sponsored by the State College YMCA and are held within its facilities. It offers to the students an attractive lobby equipped with writing and reading tables and comfortable chairs, a television room, four conference rooms where student and faculty groups may meet, a small auditorium, and a recreation room.

The Danforth Chapel provides a place for religious services and meditation for all faiths.

The YMCA plans social events and lectures on various topics related to student life in addition to, or in connection with, its programs of religious emphasis.

In addition to those offered by the YMCA and the College Union buildings, many other services and facilities for which there has been a long felt need at State College are provided in the new D. H. Hill Library.

The D. H. Hill Library, which started serving students and faculty in the fall of 1954, was designed to provide space for all the varied functions that a modern library must perform. Ample stacks were so planned that the present collection of 157,000 books and over 3,000,000 documents could be quadrupled and still housed properly, that photoprinting and microfilming could become a feature of the library service, that the periodicals, numbering nearly 2,000 currently received, could be effectively processed and displayed, and that the building could be a welcome and satisfactory working center for the faculty and the students.

In the attractive lobby of the building there is arranged a collection of books for recreational reading. Students may explore this area as they please and check out the books of their choice. The big West Reading Room, colorful, well-lighted and interesting, is an invitation to study, and on the top floor is a special smaller study open to the students who prefer to work in a more secluded place. For the graduate students there are desks and private lockers in the stacks and, adjoining the ground floor stacks, a large and pleasant room where faculty members and graduate students may smoke and read. In addition to these facilities, there are several conference rooms open to any college groups requesting them, several rooms which can be temporarily assigned to faculty members, and, on the second floor, a room containing a rental typewriter available to any person in need of one. The Library is certainly a place for work, for acquiring technical knowledge; it can also be a place for discovering all the wealth of pleasure and of widened understanding which books can bring to the student who decides he does indeed desire to become a man of education and of stature.

HOUSING

At State, the dormitory is considered something more than merely a suitable place for living and studying. A well-organized dormitory program plays an important role in the student's all-around development. Under the program, each dormitory is organized much like a club, with officers elected by the residents, and paid student managers recommended by the dormitory officers and approved by the college. Each student is encouraged to participate in the athletic, social, and recreational activities of his dormitory and in this way to have opportunity to meet and make friends with students of variant backgrounds, to use his leisure time pleasantly and profitably, and to grow in personality. Each dormitory elects its representatives to the Interdormitory Council, a student organization which coordinates interdormitory activities and programs. In each of six major dormitories a faculty couple occupy an apartment and act as host and hostess. They assist the occupants with their problems and provide a pleasing atmosphere in which the parents and friends of the occupants can visit the dormitory.

The College has no dormitory for women students. Co-eds must make their own housing arrangements. A list of available rooms for rent is maintained at the Dormitory Rental Office in Room 4, Holladay Hall.

For the married veteran, the college has units equipped for family living located in Vetville. Vetville has its own community government with officers elected by the residents.

During the 1955-56 academic year, approximately 350 students lived in off-campus residences maintained by the seventeen social fraternities which have chapters at State College. Each chapter is represented in the Inter-Fraternity Council, which sponsors athletic events and social functions of particular interest to fraternity members.

FOOD SERVICES

The State College student does not have to travel far for food, whether it is a full meal or a between-class snack.

Leazar Hall, the main dining hall, provides four cafeteria lines where the student may secure nutritious food at reasonable prices. The cafeteria will accommodate 1,600 people an hour.

The new College Union building offers dining room facilities for groups and a snack bar. Shuttle Inn in the Textile Building serves sandwiches and light meals. Shuttle Inn is operated by the Student Supply Store.

In addition, each dormitory area has its own snack bar, also operated by the Student Supply Store system.

LAUNDRY AND DRY CLEANING

The college laundry provides on-campus laundry and dry-cleaning service on a cash-and-carry basis for both students and staff at inexpensive rates.

BARBER SERVICE

Two barber shops are provided, one in the YMCA Building and one in the College Union.

BOOKS AND SUPPLIES

Watauga Book Shop. All required textbooks and other books of current and permanent interest can be purchased in Watauga Book Shop, housed in the basement of Watauga Hall.

Book Exchange. Alpha Zeta, student honor fraternity, maintains a book exchange in 1911 Building where students may exchange or sell used books.

General Supplies. The Student Supply Store, located in the basement of the YMCA Building, stocks a wide variety of general items which the student will need, including drawing instruments, writing supplies, and incidentals.

HEALTH

The college seeks to safeguard the health of the student in every way possible. It maintains a 76-bed infirmary, open 24 hours a day, with a staff of nine: the college physician, a supervising nurse, a night supervisor, five general duty nurses, and one full-time laboratory and X-ray technician. Among the many valuable features of the infirmary are an up-to-date first aid department and X-ray department.

The college physician observes regular daily office hours in the infirmary, in the mornings, with afternoon visits on Sunday. In addition, he visits the infirmary more often when necessary. A graduate nurse is on duty day and night. Students have free access to the infirmary at all times.

In case of accident or serious illness of a student, parents or guardians will be notified immediately by the Director of Student Personnel. No

surgical operation will be performed without full consent of parents or guardians, except in cases of extreme emergency.

The medical fee which each student pays provides for infirmary service, general medical treatment, and for the services of nurses. It does not provide surgical operations, outside hospital care, or the services of dentists or other specialists.

Before the student enters college he should have a complete, thorough examination by his family physician. Any abnormality should be noted and all remedial defects corrected in order to prevent unnecessary loss of time while the student is in college. If the examination is not done before he enters, the student will be given a physical examination at the college, for which a fee is charged. Blanks for the physical examination can be secured from the Office of Registration.

Student Government sponsors annually a plan of students' accident insurance. During 1955-56, arrangements were in effect with the Pilot Life Insurance Company whereby an accident policy costing \$7.00 per year for male students and \$5.00 per year for female students was available on an optional basis. It is planned to have a similar policy available each year for which complete information will be furnished students before the opening of school.

ORIENTATION — — — — —

Several days before the registration of upperclassmen in the fall semester, freshmen arrive on the college campus for a series of activities known as Freshman Week. This is the new student's first experience with college life. To help him with the transition from high school to college and to help him become acquainted with the campus and with college regulations, the college arranges during this period a series of meetings and conferences with faculty and with student leaders.

Orientation activities begun in Freshman Week are continued throughout the first semester. A series of all-freshman assemblies cover topics of general interest and supplement orientation courses arranged by the individual schools. The individual schools provide for regular contact with faculty advisers for small-group conferences or individual meetings, so that each student will have the opportunity for discussion of matters connected with adjustment to college life.

COUNSELING: STUDENT QUESTIONS AND PROBLEMS — — — — —

General. The general information center for students at State College is located in Holladay Hall including the offices of the Dean of student Affairs and those of administrators handling attendance, student activities, student housing, orientation and counseling, and student financial aid.

Academic. Upon enrolling at State College, each student is assigned to a faculty adviser, usually a member of the department in which the student is taking his major work. This faculty adviser works with the student in planning his program of studies and is available for other help in solving problems of an academic nature. The deans, directors of instruction, and department heads are also available to the student to help him get information about the different curricula and to help him think through his educational plans. Teachers of courses in which the student is enrolled are the best sources of help with particular subjects. Members of the teaching staff maintain a schedule of office hours and expect the student to consult them individually wherever special help is needed. Coaching classes are held in mathematics, chemistry, and physics, as a supplement to regular class instruction.

Dormitory Counseling. Each of the dormitories at State College has a building manager, an upperclassman with the qualification for and responsibility of helping individual students in his dormitory, particularly freshmen, in any way he can. Floor managers and, in many cases, assis-

tants chosen on the same basis, assist the dormitory manager. Whenever these managers cannot answer particular questions or give aid in solving special problems, they direct the student to the administrative official who can. Also, in some of the larger dormitories, faculty couples are quartered, to provide the influence and assistance that such mature persons can give.

Financial Problems. The Student Financial Aid Office in Holladay Hall provides the contact with the North Carolina State College Scholarship and Student Aid Committee, whose functions are discussed in the next section. Information about various aid possibilities, applications for grants or loans and help in obtaining part-time employment are available at the Student Financial Aid Office.

Vocational Testing and Counseling. Psychological tests and counseling are available to any student at the Counseling Center in Holladay Hall. Students who are undecided about curriculum choice and ultimate vocational goals may find it profitable to avail themselves of this service.

Placement. Each of the degree-granting Schools at State College provides its students with assistance in obtaining employment during summer vacation and upon graduation. In some curricula a period of approved summer work is required for graduation.

FINANCIAL AID FOR STUDENTS

The program of financial aid for State College is administered by the Student Financial Aid Officer under the general direction of the North Carolina State College Scholarship and Student Aid Committee. This committee, with representation from the various Schools and other agencies interested in providing such aid. It has the responsibility not only of awarding grants and scholarships to deserving students but also of considering with the student his entire plan for financing his education and assisting him to make effective use of available resources.

Financial aid for students is divided into two classifications: (1) general scholarships, grants-in-aid, loans, athletic awards, and self help (these are administered generally by the central committee); (2) restricted scholarships; fellowships (these are administered by or through the Schools or Departments of the college).

General Scholarships are those which are available to State College students without regard to curriculum.

Grants-in-aid are awards in varying amounts, normally not to exceed \$200. They are awarded to deserving students from funds derived from the State of North Carolina Escheats Fund and from a portion of the earnings of the Student Supply Store.

Loans on a long-term basis are made to deserving students who can meet legal requirements for proper notes. Ordinarily the student does not make payments on the principal until after leaving the college permanently. Short-term emergency loans up to \$50 are also available from the Student Government Loan Fund.

Athletic-Grants-in-Aid are made to athletes who are deserving of good character. These awards are made from funds provided by the Wolfpack Club and the North Carolina State College Educational Trust Fund.

The *Self-Help* program provides an employment service for students who desire part-time work to assist themselves financially. Jobs are available both on and off campus.

Restricted Scholarships are those which are awarded to students in particular curricula. These are available in the Schools of Agriculture, Design, Education, Engineering, Forestry, and Textiles from funds made available by individuals, groups, and industrial and business organizations.

Periodically, the Scholarship and Student Aid Committee publishes a full listing of scholarships and awards available both to entering freshmen and upperclassmen. Copies of these listings may be secured from the Student Financial Aid Office.

FELLOWSHIPS AND GRADUATE ASSISTANTSHIPS

Graduate fellowships are funds offered to graduate students to assist in the support of programs of advanced study. Holders of fellowships have no obligations to the college and may devote full time to the prosecution of their graduate programs. Funds for these fellowships are provided by various professional groups and business organizations.

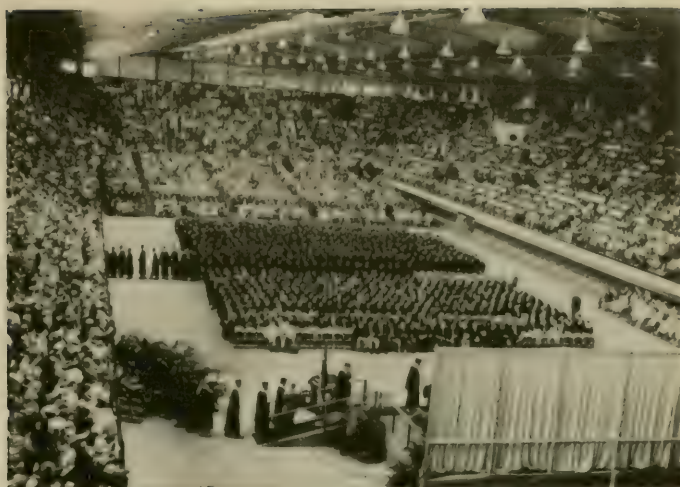
Graduate Assistantships are granted to selected students who devote some part of their time to service duties for the college. Teaching assistantships carry a stipend of \$1200 for the academic year and permit a holder to enroll for sixty per cent of a full course load. Stipends for research assistantships range from \$1500 to \$2100 for a 12-months appointment.

. . . the two supreme temporal needs of North Carolina today are (1) a race of farmers so intelligent, so thrifty, so capably fitted that it can win from the soil a more adequate return for its labors and thereby add to its comfort and education and wealth of the State. . . .

. . . and (2) a specifically educated class of men who can turn our raw products into more highly organized wares and who can skillfully and unhesitatingly lead the industrial progress of our people. To contribute more and more each year to the rearing of such men is the mission of our college.

Daniel Harvey Hill
President, 1908-1916





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III. PROGRAMS OF STUDY

BY SCHOOLS

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SCHOOL OF AGRICULTURE

D. W. COLVARD, DEAN

R. L. LOVVORN, DIRECTOR OF INSTRUCTION

INTRODUCTORY — — — — —

Agriculture was man's first profession. It is also his most important one because, "without food nothing else matters." North Carolina has more farmers than any other state in the nation. Only three states outrank it in cash value of farm crops produced and only about 20 states now outrank it in value of livestock and livestock products. Differences in soil, rainfall and altitude within its borders offer a wide variety of choice in agricultural production in the state. Graduates of the School of Agriculture have other choices than that of farming for their life's work. Many continue their studies in various graduate schools as preparation for resident or extension teaching, or for careers in research. Many others enter business careers in fields closely allied to agriculture.

The overall objective of the School of Agriculture is the development of well-rounded, educated persons capable of playing important parts in the task of providing for the basic needs of mankind—food, clothing, shelter.

For success in the School of Agriculture, a student should be equipped with the necessary tools of science, mathematics and language or at least show an aptitude for these fields. The student's first two years in the School of Agriculture are devoted quite largely to the sciences, mathematics, English, economics together with some beginning courses in agriculture.

More specifically, the objectives of the School of Agriculture are:

To obtain through scientific research, experimentation, and demonstration accurate and reliable information relating to soils, plants, and animals, and to obtain from every available source reliable statistical, technical, and scientific data relating to every phase of agriculture that might be of advantage to the State;

To provide instruction in the College for young men who desire to enter the field of general agriculture, or to become professionals in agricultural education or specialists in any field of science related to agriculture;

To disseminate reliable information through publications and through extension agents, and by the wise use of this information to give instruction to agricultural workers on the scientific, experimental, and practical progress in various lines of agriculture.

Agriculture has always been an art but today's agriculture is firmly based on science; thereby requiring that students become thoroughly grounded in science, both physical and biological. Nevertheless, breadth of training and understanding should not be sacrificed to narrow specialization in any field. Studies in language, history, philosophy—the humanities and social sciences in general—are therefore assigned as prominent a place as possible in all agricultural curricula at North Carolina State College.

CURRICULAR OFFERINGS AND REQUIREMENTS — — — — —

A freshman student in the School of Agriculture will have an ultimate choice from among 25 curricula. As a freshman he may enroll in the General Agriculture curriculum or in one of 5 specialized curricula. If he enrolls in General Agriculture he will major in his upper-class years in one of a total of 19 optional curricula offered in the following departments which function as major fields of special interest. Some of

the particular phases of the work in each department are indicated herewith:

Agricultural Economics—Farm Marketing and Farm Management
Animal Industry—Animal or Dairy Husbandry or Nutrition
Botany—Bacteriology, Plant Physiology
Entomology—Toxicology, Insect Control
Experimental Statistics—Planning, Interpretation
Field Crops—Production, Plant Breeding
Genetics—Hereditary Transmission, Cytology
Horticulture—Fruit, Ornamental or Vegetable Crops and Processing
Plant Pathology—Disease Identification and Control
Poultry Science—Breeding, Management, Marketing
Rural Sociology—Human Relations, Group Behavior
Soils—Genesis and Classification, Chemistry, Physics, Microbiology, Conservation and Management
Zoology—Animal Ecology and Physiology, Wildlife Conservation and Management

A freshman student on the other hand may choose to go into any one of five specialized curricula immediately. These are as follows:

Agricultural Engineering—Farm Structures, Soil and Water Conservation Engineering, Rural Electrification, and Farm Machinery
Mechanized Agriculture—Farm Structures, Soil and Water Conservation, and Farm Machinery
Chemistry—Agricultural and Biological
Dairy Manufacturing—Market Milk, Butter, Cheese, Ice Cream
Wildlife Conservation and Management

A Pre-Veterinary curriculum is available to students as part of a working agreement with two Southern Veterinary Colleges. After the completion of the prescribed work (usually 3 years) 8 North Carolina students are selected each year to attend the University of Georgia Veterinary College and 4 to attend the Veterinary College at Oklahoma A & M College at in-state rather than out of state tuition rates. The first year's work (up to 42 credits) at either Georgia or Oklahoma may be transferred to North Carolina State College and counted toward graduation requirements for a B.S. degree from N. C. State in the General Agriculture curriculum with a major in Zoology, Animal Industry or Poultry Science.

In the case of all students in the School of Agriculture, required or elective courses must be taken from at least 6 departments (other than major department) in the Schools of Agriculture and Forestry—exclusive of 1 credit courses. Exceptions may be made with the approval of the Director of Instruction. (See also Experimental Statistics page 52.)

Students excused from required Military or Air Science and/or Physical Education must earn equivalent credits in the Humanities and/or Social Sciences.

The Departments listed above as offering major field work in General Agriculture in upper-class years and those offering specialized curricula throughout 4 years are discussed in the following pages. Mechanized Agriculture will be found under the Department of Agricultural Engineering; Dairy Manufacturing under the Department of Animal Industry; and Wildlife, Zoology and Pre-Veterinary under the Department of Zoology.

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DEGREES — — — — —

The degree of Bachelor of Science is conferred upon the satisfactory completion of one of the curricula in this School,

The degree of Master of Science is offered in the various departments in the School of Agriculture upon the satisfactory completion of the stipulated requirements.

The degree of Doctor of Philosophy is offered by the following departments: Agricultural Economics, Animal Industry, Dairy Manufacturing, Botany, Entomology, Experimental Statistics, Field Crops, Genetics, Plant Pathology, Soils and Zoology.

Further information may be found in the Graduate School Catalog.

OPPORTUNITIES — — — — —

Classification of career opportunities in agriculture could be made in a variety of patterns. The Association of Land Grant Colleges recognizes 8 categories as shown in the accompanying tabulation. The broad field of agriculture presently needs 15,000 agricultural graduates per year but is now getting only 8,500. Opportunity is written large before any agricultural college graduate, although a young person should never lose sight of the fact that the most important thing in the world is to find work that one really loves. In Agriculture there are 8 general fields of opportunity;

- Farming—Crops, Livestock, Fruts, Vegetables, Specialties, etc.
- Research—Production, Marketing, Processing, etc.
- Industry—Meat, Dairy, Poultry, Feed, Fertilizer, etc.
- Business—Grading, Marketing, Credit, Cooperatives, etc.
- Education—College, Secondary, Extension Teaching, etc.
- Communications—Writing, Reporting, Radio, Television, etc.
- Conservation—Soil, Water, Range, Forest, Wildlife, etc.
- Services—Inspection, Regulation, Plant & Animal Quarantine, ect.

Probably no field offers more diverse career opportunities than the field of agriculture. From the cloistered life of the researcher in his frock coat to the business dress of thousands of people supplying the needs of farmers or processing and marketing the manifold articles originating in agriculture's fields, ranches, or barns and on to the blue jeans of the actual producers, there is opportunity to challenge the best in modern American youth. If your interest lies anywhere in this broad field, The School of Agriculture at North Carolina State College will welcome you. The large faculty (150 well-trained persons) and diverse programs of study are dedicated to the development of creative agricultural specialists who are also "competent in mind; vigorous in body; tolerant in attitude; courageous in spirit; and cooperative in temperment."

**COMPOSITE FRESHMAN CURRICULUM
ALL CURRICULA IN SCHOOL OF AGRICULTURE**

1. General Agriculture & Pre-Veterinary
2. Agricultural Engineering
3. Mechanized Agriculture
4. Dairy Manufacturing
5. Wildlife Conservation & Management
6. Agricultural and Biological Chemistry

		FALL SEMESTER
Taken by	Course	Credits
1,2,3,4,5,6	ENG 111 (Composition)	3
2,3,6	MA 101 (First Year Mathematics for Engineers)	5
1,4,5	MA 111 (Algebra & Trigonometry)	4

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1,2,3,4,5	BO 101 (General Botany)	3
1,4,5	ZO 101 (General Zoology)	3
1,2,3,4,5,	AG 101 Agriculture and World Affairs	3
6	CH 201 (General Inorganic)	5
2,3	AGE 151 (Farm Mechanics)	4
2,3	ME 101 (Engineering Graphics I)	2
5	HI 261 (The United States in Western Civilization)	3
1,2,3,4,5,6	MS 101 or AS 121	2
1,2,3,4,5,6	PE 101	1

SPRING SEMESTER

Taken by	Course	Credits
1,2,3,4,5,6	ENG 112 (Composition)	3
2,3,6	MA 102 (First Year Mathematics for Engineers)	4
1,4	MA 112 (Analytic Geometry & Calculus)	4
1,5	BO 102 (General Botany)	3
1,5	ZO 102 (General Zoology)	3
1,2,3,4	CH 101 (General Inorganic Chemistry)	4
6	CH 205 (General Qualitative Chemistry)	5
4	AI 201 (Elements of Dairy Science)	4
2,3	ME 102 (Engineering Graphics II)	2 3
4	PSY 200 (Introduction to Psychology)	3
5	PS 201 (The American Governmental System)	3
1,2,3,4,5,6	MS 102 or AS 122	2 2
1,2,3,4,5,6	PE 102	1

Curriculum 1 other than Pre-Vet, may substitute an Elective for Chemistry 101 in spring semester.

Curricula 2 and 3 take Botany 101 in Spring Semester.

Curriculum 5 takes MA 111 in Spring Semester.

Curriculum 6 takes either Botany 101 and 102 or Zoology 101 & 102.

An Optional Mathematics course may be substituted for MA 112 in some curricula at the request of the student and the discretion of his advisor and the Director of Instruction.

If Chemistry is taken the second semester of the freshman year, ZO 102, General Zoology, or BO 102, General Botany, may be taken in the sophomore year.

AGRICULTURE

UPPER-CLASS CURRICULUM IN GENERAL AGRICULTURE

			Credits
2	CH 101	General Inorganic Chemistry (If not taken in Freshman Year)	4 0
	CH 103	General and Qualitative Chemistry or	
	CH 203	General and Organic Chemistry	4 or 0 4 or 0
	EC 201	Economics and	
	AGC 212	Economics of Agriculture	3 3
	PY 211	General Physics and	
	HI 261	The United States in Western Civilization	4 or 3 4 or 3
		Major Field Electives or Agricultural Electives	6 6 or 9
	MS 201, 202	Military Science or	
	AS 221, 222	Air Science	2 2
	PE 201, 202	Physical Education	1 1
			<hr/> 19 or 20 19 or 20

3	SOI 200	Soils	4
	ENG 231	Basic Speaking Skills	3
		English Elective	3

4	PS 201	The American Governmental System	3
	RS 301	Sociology of Rural Life	3
		Humanities or Social Science	6
		Major Field Electives or Agricultural Electives	35
		Advanced Military Science or Advanced Air Science or Advised Electives	12
			<hr/> 69

AGRICULTURAL ECONOMICS— — — — —

Professor H. B. James, *Head of the Department*

Professor Emeritus G. W. Forster

Professor Charles E. Bishop, W. W. McPherson, Richard A. King

Associate Professors Arthur J. Coutu, Henry A. Homme, Quentin W.

Lindsay, Lee R. Martin, W. H. Pierce, George S. Tolley, W. D.

Toussaint, J. C. Williams, Jr.

Assistant Professors James A. Seagraves, Anthony P. Stemberger

OBJECTIVES— — — — —

Students in Agricultural Economics are trained to deal with practical problems of managing a farm and marketing farm products. The major objective of this training is to provide a foundation in basic economic principles and techniques of analyses which will be useful in making sound decisions with respect to what and how to produce, how and when to buy or sell, and how to evaluate new developments in technology, changes in agricultural policies or other factors which affect their production and marketing plans.

CURRICULA

UNDERGRADUATE

The curriculum is designed to provide a broad training for students who are interested in the economic problems of agriculture. Emphasis is placed upon the factors determining prices and the use of prices in making decisions. Technical problems are used as a basis for learning how to make economic evaluations of the income effects of change. The effect of government policies and programs upon agriculture are considered.

The flexibility of the curriculum and the wide range of courses dealt with enable the Department to train students for many types of jobs where a knowledge of technical agriculture and the economic principles applicable to agriculture are useful. Students have a choice of subjects in Farm Management, Marketing, Policy, and other phases of farm economics, as well as in the principles of agricultural economics around which the applied courses are built. The degree of Bachelor of Science in Agricultural Economics may be earned under the provisions of the General Curriculum in Agriculture. In addition to the requirements of the General Curriculum in Agriculture, see pages 38 and 40, the following courses are required for students majoring in Agricultural Economics:

		Credits
AGC 303	Farm Management I	3
AGC 533	Agricultural Policy	3
AGC 551, 552	Agricultural Economic Theory	6
EC 401	Principles of Accounting	3
ST 311	Introduction to Statistics	3
	Elective Course in Marketing	3
		21

This permits the student to elect at least 32 semester hours in other fields and provides him with an opportunity to obtain a better understanding of the technical and social forces affecting economic decisions.

GRADUATE

The Department of Agricultural Economics also offers a wide range of opportunities for advanced instruction and research leading to the degree of Master of Agricultural Economics (professional degree), Master of Science and Doctor of Philosophy in Agricultural Economics. The graduate program is designed to provide a thorough foundation in economic theory, with emphasis upon the application of economic principles in the solution of agricultural problems. North Carolina provides a laboratory unsurpassed by any other area in its opportunities for the study of problems associated with the economic development of agriculture, especially in relation to current industrial development. In addition to the courses in basic economic theory, special training is offered in economics of consumption and distribution of agricultural products, economics of production, land economics, analysis of agricultural policies and programs, monetary and fiscal policies in relation to agriculture, international trade, econometrics, and analysis of economic development in agriculture.

FACILITIES

The Department is well equipped with modern equipment essential to its extensive research and teaching program. It has a modern departmental library, including an excellent set of references to the major professional Journals in the field of Agricultural Economics and Experiment Station publications from other institutions. A great volume of farm information is available for study and for illustrating the principles of modern farm management. Statistical information on consumption, marketing, agricultural finance, taxation, insurance, soil conservation

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practices, and agricultural policy also is available for use of students and agricultural workers.

OPPORTUNITIES

The rapid growth and development of industry and agriculture in North Carolina and throughout the South has resulted in an increased demand for workers who are well trained in both the fundamentals of technical agriculture and economic analysis. Many graduates of the Department of Agricultural Economics are employed in research and educational work by the various agencies of the Federal and State governments. These include the Agricultural Extension Service, the Agricultural Experiment Station, the State Department of Agriculture, and various divisions of the United States Department of Agriculture. Others are engaged in professional farm management, professional work with banks and other commercial organizations dealing in agricultural credit, farm supplies and equipment, and the production, processing, and marketing of agricultural products. Graduates of Agricultural Economics are especially well-qualified to manage, or to assist in managing, any business enterprise related to agriculture. Since the number of requests received by the Department for employees exceeds the number of students graduating, students generally have a choice of positions.

AGRICULTURAL ENGINEERING

- Professor G. Wallace Giles, Head of the Department*
- Professors F. J. Hassler, David S. Weaver, John W. Weaver, Jr.*
- Associate Professors H. D. Bowen, J. M. Fore, W. E. Splinter, T. Virgil Wilson*
- Assistant Professors George B. Blum, Jr., Ezra L. Howell, Blaine F. Parker, Jan van Schilfgaarde*
- Head Mechanic Ralph B. Greene*

OBJECTIVES

Students in Agricultural Engineering are educated and trained to deal with the problems of agriculture that are engineering in nature. Involved are the application of scientific and engineering principles to the conservation and utilization of water and soil, the development of power and labor-saving devices for all phases of agricultural production, the design of structures and equipment for housing and handling livestock and field products, and the processing and marketing of farm products.

The need for men to carry out the technical aspects such as development and research as well as less technical work such as sales and service of farm equipment requires the offering of two distinct curricula as described below. A common first year is provided in order to allow the student more time to select one of the two curricula.

CURRICULA

AGRICULTURAL ENGINEERING CURRICULUM

Leading to the degree of Bachelor of Agricultural Engineering

This curriculum is designed to develop young men capable of engineering leadership in agriculture. Emphasis is placed on basic science courses such as mathematics, physics, mechanics, biology, soils, and thermodynamics, which provide a sound background for engineering and agricultural technologies. Courses in Agricultural Engineering are designed to teach the student to make application of sciences to agriculture. General Agriculture courses are provided so that the student can better understand the agricultural industry with which he deals.

Since Agricultural Engineering involves two distinct technical fields—Agriculture and Engineering—this curriculum is a joint responsibility of the two schools and is so administered.

MECHANIZED AGRICULTURE CURRICULUM

Leading to the degree of Bachelor of Mechanized Agriculture

This curriculum is less technical than the Agricultural Engineering Curriculum. It is designed for those who are working on a practical level with farm people. Graduates are equipped to apply to the farm the new technologies as developed and revealed by the technical engineer. The courses are presented mainly from the viewpoint of the user and consumer.

FACILITIES

The offices, classrooms, and shops used in Agricultural Engineering are located in Mangum and Tompkins halls. One half of a new Agricultural Engineering building, to provide more adequate facilities, will be ready for occupancy around September, 1956.

At present, the facilities include six laboratories and shops, plus field laboratory areas. The farm machinery laboratory has the latest labor-saving farm equipment for preparing seedbeds, planting, cultivating and harvesting crops. These machines are furnished by leading farm machinery manufacturers and are replaced from time to time as improvements are developed. Special effort is made to have on hand all types of equipment for use in the best practices in the production of farm crops. The farm engines and tractors laboratory is equipped with various makes and styles of tractors and supplementary farm power units, and with the tools and equipment most commonly used by service shops. Other equipment consists of drawbar and belt dynamometers for testing. The farm shop located in Tompkins Hall, considered one of the finest teaching shops of its kind anywhere, is completely equipped with the latest power and hand tools. A research shop operated for the Experiment Station and available for use by senior students doing research work in the course "Special Problems" is considered the best equipped shop of its kind in the nation. The farm buildings laboratory is equipped with drawing tables, a blueprint machine, supply cabinets, and models of various types of farm buildings construction. The rural electrification laboratory is equipped with the latest types of electrical appliances and devices as used by farmers on rural lines, much of it loaned by manufacturers. Laboratory equipment for land improvement consists of sets of surveying instruments, drafting tables, calculating equipment, and field machines for this type of work.

Field laboratory areas in crops, vineyards, orchards, and pastures are available for demonstrations and practice in the use of farm equipment and in drainage and erosion control.

OPPORTUNITIES

Men trained in Agricultural Engineering are qualified for positions in design, development, and research in public institutions and in industry and for teaching and extension work in institutions of higher education. The curriculum also provides adequate training for postgraduate work leading to advanced degrees.

Men trained in the field of Mechanized Agriculture are qualified for positions in sales and service of agricultural equipment such as farm machinery, irrigation systems, etc.; as county agents or farmers; and for farm advisory work with such organizations as electric power companies.

SPECIALIZED CURRICULUM IN AGRICULTURAL ENGINEERING

A minimum of 153 semester hours is required for graduation.

			Credits	
1	See page 38			
2	SOI 200	Soils	0	4
	CH 203	General and Organic Chemistry	4	0
	CE 201	Surveying I	0	3
		English Elective	3	0
	MA 201, 202	Calculus I, II	4	4

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PY 201, 202	General Physics	5	5
MS 201, 202	Military Science* or		
AS 221, 222	Air Science*	2	2
PE 201, 202	Physical Education*	1	1
		<hr/>	<hr/>
		19	19

3	AGE 211	Farm Power and Machinery	3	0
	AGE 371	Soil and Water Conservation Engineering	4	0
	EC 201	Economics	0	3
	EE 320	Elements of Electrical Engineering	4	0
	EM 311, 312	Mechanics I, II	3	3
	EM 321	Strength of Materials I	0	3
	EM 430	Fluid Mechanics	0	2
	ENG 321	Basic Speaking Skills	0	3
	ME 301	Engineering Thermodynamics I	0	3
		Military Science or		
		Air Science or		
		Electives	3	3
			<hr/>	<hr/>
			17	20

4	AGC 212	Economics of Agriculture	0	3
	AGE 451	Farm Structures	0	4
	AGE 452	Curing and Drying of Farm Crops	2	0
	AGE 462	Senior Seminar	1	1
	AGE 481	Farm Power and Machinery IIA	4	0
	AGE 491	Rural Electrification	4	0
	AGE 551	Special Problems	0	**
	HI 261	The United States in Western Civilization	0	3
	PS 201	The American Governmental System	3	0
	RS 301	Sociology of Rural Life	3	0
		Social Science Elective	0	3
		Military Science or		
		Air Science or		
		Electives	3	3
			<hr/>	<hr/>
			20	19

SPECIALIZED CURRICULUM IN MECHANIZED AGRICULTURE

A minimum of 151 semester hours required for graduation
For Freshman Year, see page 38 (same as Agricultural Engineering).

			Credits	
2	AGE 211	Farm Power and Machinery I	0	3
	CH 203	General and Organic Chemistry	4	0
	CE 201	Surveying I	0	3
	EC 201	Economics	0	3
		English Elective	3	0
	MA 201	Calculus I	4	0
	PY 211, 212	General Physics	4	4
	PO 201	Chicken and Turkey Production	0	4
	MS 201, 202	Military Science* or		
	AS 221, 222	Air Science*	2	2
	PE 201, 202	Physical Education*	1	1
			<hr/>	<hr/>
			18	20

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3	AGC 212	Economics of Agriculture	3	0
	AGC 303	Farm Management I	0	3
	AGE 321	Irrigation, Drainage, and Terracing	4	0
	AGE 411	Farm Power and Machinery IIB	0	3
	SOI 200	Soils	4	0
	AI 200	Elements of Dairy Science or		
	AI 202	Fundamentals of Animal Husbandry	0	4
	EC 107	Business Law	0	3
	EM 341	Mechanics A	2	0
	FOR 311	Principles of Farm Forestry	2	0
	PSY 200	Introduction to Psychology	0	3
		Military Science or		
		Air Science or		
		Electives	3	3
			18	19
4	AGE 332	Farm Buildings and Crop Processing	4	0
	AGE 341	Farm Electrification and Utilities	4	0
	AGE 452	Senior Seminar	1	1
	ENG 231	Basic Speaking Skills	3	0
		Field Crops Elective	3	0
	HI 261	The United States in Western Civilization	0	3
		Horticulture Elective	0	3
		Marketing Elective	0	3
	PS 201	The American Governmental System	0	3
	RS 301	Sociology of Rural Life	0	3
		Military Science or		
		Air Science or		
		Electives	3	3
			18	19

* Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses outside their department.

** Credits by arrangement.

ANIMAL INDUSTRY

Professor J. W. Pou, Head of the Department

Professors E. R. Barrick, C. D. Grinnells, F. M. Haig, J. E. Legates, G. Matrone, J. C. Osborne, W. M. Roberts, M. L. Speck, H. A. Stewart, R. K. Waugh, G. H. Wise

Associate Professors L. W. Aurand, T. N. Blumer, W. R. Murley, F. H. Smith, W. E. Thomas, S. B. Tove, F. G. Warren

Assistant Professors J. P. Ammerman, R. R. Bell, A. J. Clawson, E. U. Dillard, Lemuel Goode, J. G. Lecce, J. L. Moore, H. A. Ramsey, R. B. Redfern, W. W. G. Smart, Jr., J. J. McNeill

Instructors L. F. Blanton, B. R. Farthing, J. H. Gregory, R. D. Mochrie, R. M. Myers

OBJECTIVES

The Department of Animal Industry has the responsibility for training students in the fields of dairy and livestock production and processing. To accomplish this aim, the Department offers two curricula—one in

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Animal Industry, with the opportunity for specialization in Dairy Husbandry, and the other in Dairy Manufacturing.

Students who have not had the opportunity to gain farm experience before entering college may adapt themselves more readily to work in dairy manufacturing. Those who plan to pursue production work should gain all of the farm experience possible prior to graduation. Members of the Animal Industry Department staff will be glad to assist in planning a summer work experience.

FACILITIES — — — — —

The Department of Animal Industry, with the exception of the Veterinary Section, is housed in Polk Hall, a three-story building located near the center of the campus. One wing of the basement of this building is devoted to the dairy manufacturing plant and laboratories. These facilities are equipped with the most modern machinery available for teaching and research in the processing and distribution of market milk, ice cream, cheese, butter, and other dairy products.

The farm meats laboratories are located in the other basement wing. These laboratories provide facilities for animal slaughtering and meat processing and preservation. They are well-equipped for teaching and research and are among the most modern and up-to-date in the country.

The three upper floors of Polk Hall contain offices, classrooms, a library, and laboratories in dairy bacteriology, dairy chemistry, animal nutrition, animal physiology, animal breeding, and meats. The teaching, research, and extension staff members in the various areas of animal production and dairy manufacturing have their offices in the building.

The Veterinary Section is located in a new and modern Animal Disease Laboratory Building. This Building has excellent facilities for research and teaching in the animal disease field, including large animal isolation units for work in the field of virology, and a diagnostic laboratory.

The Department maintains three livestock farms, which are located within a few miles of the campus. The Animal Husbandry Farm contains 1,100 acres. Registered and commercial herds of beef cattle, swine, and sheep are maintained for teaching and research. The adjoining Dairy Farm contains 900 acres. Two well-equipped and modern dairy barns house over 200 head of registered Ayrshire, Guernsey, Holstein, and Jersey cattle. A judging pavilion and an artificial breeding bull barn, with completely equipped laboratories, are also located on this farm. A research center, containing an animal nutrition laboratory and barns and other facilities to accommodate large animals for experimental purposes, is located on the third farm.

OPPORTUNITIES — — — — —

There are many opportunities for students who major in Animal Industry to enter either the production or processing fields. Students who specialize in Animal or Dairy Husbandry are well qualified for a career in agricultural extension or similar educational work; in the commercial field with the feed industry, breed associations, dairy and livestock equipment companies, and similar concerns; or in the operation and management of dairy and livestock herds and farms.

Good opportunities are always available in the dairy manufacturing industry for young men with energy and a sound training in dairy manufacturing. There are also many opportunities for graduate study in the various dairy and animal sciences.

STUDENT ACTIVITIES — — — — —

Students have the opportunity to train for judging teams in meats, livestock, dairy cattle, and dairy products. Each year these four teams

represent the College in the respective national intercollegiate judging contests. The opportunities for excellent supplemental training and valuable trips and experiences are provided students who participate in these judging team programs.

CURRICULA

Students in the Department may specialize in Animal Husbandry, Dairy Husbandry or Dairy Manufacturing. Majors in Animal Husbandry and Dairy Husbandry should elect the general curriculum in Agriculture the first two years (see pages 38 and 40) and will follow the option of their choice as shown below during their Junior and Senior years.

Students majoring in Dairy Manufacturing will follow the specialized curriculum in Dairy Manufacturing on Page 48.

ANIMAL HUSBANDRY OPTION

1 See Page 38

2 See Page 40

			Credits	
3	ZO 301	Animal Physiology	3	0
	AI 312	Principles of Livestock Nutrition	0	3
	BO 412	General Bacteriology	0	4
	AI 301	Grading and Selection Meat Animals	0	2
	SOI 200	Soils	4	0
	RS 301	Sociology of Rural Life	3	0
	AI 303	Meat and Meat Products	3	0
	ENG 231	Basic Speaking Skills	3	0
	PS 201	American Governmental System	0	3
	RS 301	Sociology of Rural Life	3	0
		Military Science or Elective	3	3
			19	18

4	AI 401, 402, or Beef, Pork and Sheep Production		3	3
	403	(Two of above required)		
	AI 406	Seminar	0	1
	AI 503	Animal Breeding	3	0
	AI 505	Diseases of Farm Animals	3	0
		Agricultural Electives	0	6
		English Elective	3	0
		Social Science or Humanities Elective	3	3
		Military Science or Elective	3	3
		Free Elective	0	3
			18	19

DAIRY HUSBANDRY OPTION

1 See Page 38

2 See Page 40

			Credits	
3	ENG 231	Basic Speaking Skills	3	0
	BO 412	General Bacteriology	0	4
	SOI 200	Soils	4	0
	AI 305	Judging—Selection of Dairy Cattle	2	0

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ZO 301	Animal Physiology	3	0
AI 312	Principles of Livestock Nutrition	0	3
GN 411	Principles of Genetics	0	3
	English Elective	0	3
	Humanities Elective	3	0
	Agricultural Elective	0	3
	Air Science or		
	Advanced Military or		
	Advised Electives	3	3
		<hr/>	<hr/>
		18	19

4	RS 301	Sociology of Rural Life	3	0
	AI 503	Animal Breeding	3	0
	AI 505	Diseases of Farm Animals	3	0
	DM 401	Market Milk and Related Products	0	3
	AI 404	Dairy Farm Problems	0	3
	PS 201	The American Governmental System	0	3
	AI 502	Reproduction and Lactation	0	4
	AI 406	Animal Industry Seminar	0	1
		Humanities Elective	3	0
		Agricultural Electives	3	0
		Advanced Military or		
		Air Science or		
		Advised Electives	3	3
			<hr/>	<hr/>
			18	17

Students should schedule Elements of Dairy Science and Fundamentals of Animal Husbandry prior to their Junior year.

SPECIALIZED CURRICULUM IN DAIRY MANUFACTURING — — — —

A minimum of 146 credits required for graduation.

			Credits	
1	AG 101	Agriculture and World Affairs	3	0
	AI 201	Introduction to Dairy Science	0	4
	BO 101	General Botany	3	0
	CH 101	General Inorganic Chemistry	0	4
	ENG 111, 112	Composition	3	3
	MA 111	Algebra and Trigonometry	4	0
	MA 112	Analytic Geometry and Calculus A*	0	4
	ZO 101	Introduction to Psychology	0	3
	PSY 200	General Zoology	3	0
	MS 101, 102	Military Science** or		
	AS 121, 122	Air Science	2	2
	PE 101, 102	Physical Education**	1	1
			<hr/>	<hr/>
			19	21
2	BO 412	General Bacteriology	0	4
	CH 103	General and Qualitative Chemistry or		
	CH 203	General and Organic Chemistry	4	0
	DM 401	Market Milk and Related Products	0	3

AGRICULTURE

EC 201	Economics and Economic Elective	3	3
HI 261	English Electives	3	3
PY 211	The United States in Western Civilization	0	3
	General Physics	4	0
	Political Science Elective	3	0
MS 201, 202	Military Science** or		
AS 221, 222	Air Science	2	2
PE 201, 202	Physical Education	1	1
		20	19

3	Major Field and Agricultural Electives	Maximum 50
	Advanced Military Science or	
	Advanced Air Science or	
4	Approved Electives	12
	Electives***	6-25

* Other mathematics may be substituted for Ma 112, Analytic Geometry & Calculus A, on recommendation of adviser.

** Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in Humanities.

*** Must include not less than 6 credits of Social Sciences or Humanities. To be chosen with approval of adviser.

— BOTANY

Professor H. T. SCOFIELD, Head of Department

Professor D. B. ANDERSON

Associate Professors ERNEST BALL, A. F. BORG, H. J. EVANS, L. A. WHITFORD

Assistant Professors E. O. BEAL, P. F. BOURDEAU, W. A. BRUN, R. L. WILBUR

— OBJECTIVES

Botany emphasizes those phases of plant science which are foundational for the study of agricultural and forest crop production. Undergraduate students who anticipate doing graduate work may choose to major in Botany. Graduate work may be undertaken in several of the specialized fields of Botany.

— FACILITIES

Botanical teaching laboratories are equipped with all the essential facilities for the courses offered. Good herbari support the work systematic botany and dendrology. Laboratories for advanced study and research in specialized fields are equipped with modern instruments and other essential physical facilities. Recently constructed greenhouses provide space for teaching and research purposes.

— CHEMISTRY

Professor W. J. PETERSON, Head of the Department

Professor W. A. REID, In Charge of Chemistry Teaching

Professors G. H. SATTERFIELD, F. W. SHERWOOD, P. P. SUTTON, J. A. WEYBREW

Associate Professors T. G. BOWERY, R. R. HENTZ, C. W. JENNINGS, W. E. JORDON, R. H. LOEPFERT, C. C. ROBINSON, M. F. SHOWALTER, F. H. SMITH, R. C. WHITE

Assistant Professors T. J. BLALOCK, W. P. INGRAM, R. L. RINGLER, R. O. SIMMONS, S. B. TOVE

Instructors J. L. HALL, JR., J. W. MORGAN, G.M. OLIVER, DAVID WILLIS

AGRICULTURE

OBJECTIVES — — — — —

Students in Agricultural and Biological Chemistry are trained for work in Experiment Stations; in laboratories maintained in connection with programs for the inspection and control of foods, pharmaceutical products, animal feeds, fertilizers, gasoline and other materials; and for technical and business positions in the processing, manufacture, sale, distribution, and use of wide range of agricultural and industrial products. In addition, they receive excellent preparation for graduate study leading to research and teaching positions.

CURRICULUM — — — — —

The curriculum in Agricultural and Biological Chemistry is designed to give the students fundamental training in mathematics and the biological and physical sciences with a maximum of chemistry. It meets the requirements of the American Chemical Society for the training of professional chemists.

SPECIALIZED CURRICULUM IN AGRICULTURAL AND BIOLOGICAL CHEMISTRY

146 Credits required for graduation

			Credits	
1	BO 101, 102			
	CH 201, 205	General Botany or		
	ENG 111, 112	General Zoology	3	3
	MA 101, 102	General Inorganic Chemistry;		
	MS 101, 102 or	General and Qualitative Chemistry	5	5
	AS 121, 122*	Composition	3	3
	PE 101, 102	First Year Mathematics for Engineers	5	4
		Military Science or		
		Air Science	2	2
		Physical Education*	1	1
			19	18
2	CH 211, 212	Quantitative Analysis	4	4
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	ZO 101, 102	General Zoology or		
	BO 101, 102	General Botany	3	3
	MS 201, 202 or	Military Science or		
	AS 221, 222*	Air Science	2	2
	PE 201, 202	Physical Education*	1	1
			19	19
3	CH 421, 422	Organic Chemistry	5	5
	HI 261	The United States in Western Civilization	3	0
	ML 103, 104	Elementary German; German Grammar		
		and Prose Reading	3	3
	PS 201	The American Govermental System	0	3
		Advanced Military or Air Science*	3	3
		Electives**	4	3
			18	17

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4	CH 531, 532 Physical Chemistry	3	3
	CH 531L, 532L Physical Chemistry Laboratory	1	1
	Chemistry Electives	4	4
	English Electives***	3	3
	Advanced Military or Air Science*	3	3
	Electives**	4	4
		<hr/> 18	<hr/> 18

* Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Rural Sociology, Social Studies, and Sociology.

** Electives must include a minimum of 3 credits in Social Sciences, 3 credits in General Economics and 9 credits in Agriculture.

***Students certified as proficient in English may substitute courses in Modern Languages. A minimum of six credits in German is required for graduation. It is recommended that twelve credits in German be taken by students contemplating graduate study.

ENTOMOLOGY

Professor Clyde F. Smith, Head of the Department

Professor Emeritus B. B. Fulton

Professors T. B. Mitchell, W. M. Kulash

Associate Professor C. H. Brett

Assistant Professors J. R. Dogger, R. T. Gast, R. L. Rabb, W. A. Stephen, W. I. Mistic, Jr.

OBJECTIVES

The Entomology faculty offers instruction at both undergraduate and graduate levels and provides students desiring to major in Entomology the broad and fundamental training necessary in this profession. Undergraduate instruction is also designed to provide introductory and terminal courses in insect control technology for students majoring in agronomy, animal industry, horticulture, vocational education, and forestry. Graduate courses are available for students wishing to complete requirements for the Master of Science or Doctor of Philosophy degrees in Entomology, as well as for students majoring in any of the plant or animal sciences.

Since Entomology is of importance in every phase of agriculture, it is necessary for students majoring in entomology to have a broad and fundamental training.

FACILITIES

Facilities include air-conditioned laboratories and greenhouse space, fields for experimental work, general and specialized insect collections, and equipment essential to advanced research work.

AGRICULTURE

CURRICULUM IN ENTOMOLOGY — — — — —

1	See page 38.		
2	AGC 212	Economics of Agriculture	3
	CH 101	General Inorganic Chemistry	4
	CH 103	General and Qualitative Chemistry or	
	CH 203	General and Organic Chemistry	4
	EC 201	Economics	3
		English Elective	3
	ENT 312	Economic Entomology	3
	HI 261	The United States in Western Civilization	3
	PY 211	General Physics	4
		Agricultural Electives*	3
	MS 201, 202	Military Science or	
	AS 221, 222	Air Science	4
	PE 201, 202	Physical Education	2
3	SOI 200	Soils	4
	ENG 231	Basic Speaking Skills	3
	RS 301	Sociology of Rural Life	3
	ST 311	Introduction to Statistics	3
		Agricultural Electives*	9
		Entomology Electives**	6
		Free Electives***	9
4	PS 201	The American Governmental System	3
		Agricultural Electives*	9
		Entomology Electives**	6
		Free Electives***	18

*FC 311 Field Crops
 *FC 414 Weeds and their Control
 *BO 203 Introduction to Systematic Botany
 *BO 412 General Bacteriology
 *BO 421 Plant Physiology
 *CH 215 Quantitative Analysis
 *CH 351 Introductory Biochemistry

*GN 411 The Principles of Genetics
 *HRT 222 Introduction to Horticulture
 *PP 315 Plant Diseases
 *ZO 301 Animal Physiology
 *ZO 315 Animal Parasitology

* The above-mentioned Agricultural Electives are recommended.

** A suggested sequence of Entomology courses follows:

ENT 501, Insect Morphology; ENT 511, Systematic Entomology; ENT 551, Applied Entomology; ENT 542, Immature Insects.

Additional Entomology courses may be taken if all other requirements are fulfilled.

***For requirements respecting Social Sciences, Advanced Military, and Agricultural Electives, see the General Agricultural Curriculum.

EXPERIMENTAL STATISTICS — — — — —

Professor J. A. RIGNEY, Head of the Department

Professors R. L. ANDERSON, R. E. COMSTOCK, GERTRUDE M. COX, A. L. FINKLER, H. L. LUCAS, D. D. MASON, R. J. MONROE, H. F. ROBINSON, H. FAIRFIELD SMITH

Associate Professors C. C. COCKERHAM, R. J. HADER, D. G. HORVITZ

Assistant Professors W. W. G. SMART, F. J. VERLINDEN, JACK FLEISCHER
Instructor SARAH CARROLL

Resident Collaborator C. B. CARNEY

— — — — — OBJECTIVES

The extension of the use of statistics to more and more diverse fields of application has steadily increased since the first World War. Industry is placing increasing reliance on statistical methods to control the quality of goods in the process of manufacture and to determine the acceptability of goods already produced. Statistical procedures are becoming basic tools for making weather forecasts, crop and livestock estimates, business trend predictions, opinion polls, and the like. Furthermore, all fields of research are fast realizing the importance of statistical aids in planning, analyzing and interpreting the results of investigation.

The Department of Statistics is a part of the Institute of Statistics. It provides instruction, consultation, experimental, and computational service for all other departments of all schools in the college. The Agricultural Experiment Station receives assistance in designing experiments, analyzing, and interpreting results. Governmental agencies and other institutions use the facilities of the Department. The range and quality of data handled furnish an excellent background for training students in the use of statistical procedures in such fields as the plant, animal, and social sciences and industrial engineering.

— — — — — CURRICULUM

The curriculum in Experimental Statistics is based on the general curriculum for the School of Agriculture except that the requirement of elective courses may be distributed in six departments on the campus (not necessarily six departments in the School of Agriculture).

— — — — — FACILITIES

A laboratory equipped with the best facilities available is maintained. Calculating machines, comptometers, and International Business Machines are used constantly. Students have an opportunity to get actual experience in the use of these machines and to learn the types of data for which each is best suited.

— — — — — FIELD CROPS

Professor P. H. HARVEY, Head of Department

*Professors W. C. GREGORY, G. C. KLINGMAN, R. L. LOVVORN, T. J. MANN,
G. K. MIDDLETON, R. P. MOORE*

*Associate Professors D. S. CHAMBLEE, D. U. GERSTEL, C. H. HANSON,
P. A. MILLER*

Assistant Professors C. A. BRIM, I. T. CARLSON, G. L. JONES, J. A. MAUNEY, D. E. MORELAND, L. L. PHILLIPS, C. L. RHYNE, JR., D. L. THOMPSON, R. P. UPCHURCH

Instructor W. N. LEWIS

— — — — — OBJECTIVES

The curriculum in Field Crops has as its objectives training the student in the fundamental principles of the plant sciences, along with the application of these principles to the problems of crop production.

The importance of agronomic training in North Carolina agriculture is evidenced by the fact that North Carolina ranks third among the states in cash income from farm crops. Yet the maximum potential production of farm crops has by no means been attained. With continued improvement in varieties, cultural practices, and cropping methods, further advances will be made. In carrying out this broad program there is and will continue to be a real need in North Carolina for men well trained in plant breeding, crop production and management, and related fields.

AGRICULTURE

FACILITIES — — — — —

Williams Hall, which is shared by Field Crops and Soils, provides adequate office, laboratory, and classroom space for the entire teaching, reasearch and extension personnel of the department. In addition to the research laboratories for staff and graduate student use, several well-equipped laboratories are maintained to serve the needs of the teaching program. A library is equipped with books and periodicals dealing with agronomic and closely related subjects. Greenhouses are situated directly in the rear of Williams Hall to serve the needs for such facilities in the teaching and research programs. Much of the research is carried out on the campus at Raleigh and at some seventeen experiment stations located throughout the state. Students have the opportunity of observing, first-hand, various phases of this research. Furthermore, many students gain valuable experience as well as financial assistance by working part-time during the school year or full-time in the summer in one of these reasearch programs.

OPPORTUNITIES — — — — —

Graduate in Field Crops are trained to fill positions as County Extension Agents; farm operators and managers; salesmen in seed and fertilizer companies and similar commercial concerns; seed analysts; and as leaders in various forms of agricultural development work. The Field Crops curriculum also offers training for those students who might want to continue their education with graduate study in preparation for extension, teaching, or research positions with state or federal institutions or private industry.

STUDENT TOUR — — — — —

One of the highlights of the undergraduate curriculum is a tour of the state taken by students majoring in Field Crops and Soils during the junior year. This tour is normally taken immediately following the end of the spring term and lasts for approximately six days. During this time the student visits all of the principal farming regions in the state and has an opportunity to observe management practices used on representative farms in each region. He also visits a number of the state agricultural experiment stations as well as various commercial concerns such as fertilizer manufacturers, seed producers, and tobacco companies. This tour serves the purpose of providing the student with a better concept of the various agricultural enterprises throughout North Carolina.

CURRICULUM IN FIELD CROPS — — — — —

The Field Crops curriculum is designed to meet the interests of the student desiring a broad training in the field in order that he may be better equipped to cope with the increasing complex array of problems confronting the general agronomist. This curriculum also provides for the training of specialists in Field Crops, those students interested in a more intensive plan of study which will prepare them for specialization in some segment of the field or for graduate work.

The curriculum is divided into two options which provide a diversity of training to fit the particular needs of the individual. The student may elect one of the following options: (1) General Field Crops Option; (2) Special Field Crops Option.

The student should elect one of the options no later than the end of his sophomore year and preferably at the end of his freshman year.

GENERAL FIELD CROPS OPTION — — — — —

- 1** See page 38.
- 2** See page 40.

3 General requirements as outlined in the catalog, page 40.
Courses required by department

	Credits
FC 211	3
FC 311	3
FC 312	3
FC 413	3
FC 414	3
BO 421	4
ENT 312	3
GN 411	3
PP 315	3
SOI 302	
SOI 341	3
	<hr/> 31
Electives in Agriculture and Forestry	19

- SPECIAL FIELD CROPS OPTION

- 1 See page 38.
- 2 See Page 40.
- 3 General requirements as outlined in the catalog, page 40.

Courses required by department		Credits
FC 211	Field Crops I	3
ENT 312	Economic Entomology	3
BO 421	Plant Physiology	4
GN 411	The Principles of Genetics	3
PP 315	Plant Diseases	3
SOI 302	Soils and Plant Growth or	
SOI 341	Soil Fertility and Fertilizers	3
		<hr/> 19

At least 16 hours will be elected from the following courses, the choice being dependent upon whether the student wishes special training in Crop Production, Plant Breeding, or Weed Control:

		Credits
AI 312	Principles of Livestock Nutrition	3
BO 203	Introduction to Systematic Botany	3
BO 410	Plant Histology and Microtechnique	3
BO 412	General Bacteriology	4
BO 441	Plant Ecology	3
BO 512	Morphology of Vascular Plants	2
BO 513	Plant Anatomy	3
BO 521	Systematic Botany of Monocot Families	3
BO 523	Systematic Botany of Dicot Families	3
CH 103	General and Qualitative Chemistry	4
CH 103L	Semimicro Qualitative Analysis	1
CH 211, 212	Quantitative Analysis	4-4

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CH 215	Quantitative Analysis	4
CH 421, 422	Organic Chemistry	5-5
CH 425, 426	Organic Chemistry	3-3
FC 311	Field Crops II	3
FC 412	Advanced Pastures and Forage Crops	2
FC 413	Plant Breeding	3
FC 414	Weeds and Their Control	3
FC 541	Plant Breeding Methods	3
GN 512	Genetics	4
MA 211, 212	Analytic Geometry and Calculus B, C	3-3
PP 515	Diseases of Field Crops	3
PY 212	General Physics	4
SOI 302	Soils and Plant Growth	3
SOI 341	Soil Fertility and Fertilizers	3
SOI 352	Soil Classification	3
SOI 511	Soil Physics	4
SOI 521	Soil Chemistry	4
ST 311	Introduction to Statistics	3
ST 511, 512	Experimental Statistics for Biological Sciences, I, II	4-3
ZO 301	Animal Physiology	3
Electives in Agriculture and Forestry		15

GENETICS

Professor S. G. STEPHENS, Head

Associate Professors D. S. GROSCH, B. W. SMITH

Assistant Professor RICHARD CHARLES LEWONTIN

Cooperating with the following Associate Members of the Faculty:

Field Crops—D. U. GERSTEL, W. C. GREGORY, W. C. HANSON, P. H. HARVEY, G. L. JONES, T. J. MANN, G. K. MIDDLETON, P. A. MILLER, D. L. THOMPSON

Animal Industry—H. A. STEWART, J. E. LEGATES

Horticulture—W. S. BARHAM, F. D. COCHRAN, F. L. HAYNES, G. W. SCHNEIDER

Poultry—E. W. GLAZENER

Statistics—C. C. COCKERHAM, R. E. COMSTOCK, H. F. ROBINSON

OBJECTIVES

The Genetics faculty offers instruction at advanced undergraduate and graduate levels. Graduate courses are available for students majoring in any of the animal and plant sciences, as well as for those wishing to complete requirements for the Master's or Doctor's degree in Genetics.

At North Carolina State College there are no sharp divisions along departmental lines between the theoretical and applied aspects of genetics. Courses embodying genetic principles are also offered by the five cooperating departments listed above.

FACILITIES

Facilities are available for carrying out research projects in the Genetics Faculty and also, on a cooperative basis in other departments as indicated by the nature of the project.

— — — — — **HORTICULTURE**

Professor F. D. COCHRAN, Head of Department

Professors J. L. ETCHHELLS, M. E. GARDNER, J. B. GARTNER, J. M. JENKINS, JR., I. D. JONES, E. B. MORROW, G. O. RANDALL, G. W. SCHNEIDER

Associate Professors W. S. BARRHAM, F. L. HAYNES, JR., ROBERT SCHMIDT (Emeritus)

Assistant Professor C. L. MCCOMBS

— — — — — **OBJECTIVES**

The field of horticulture is concerned with the application of basic scientific principles to the production, handling, and marketing of fruits, vegetables, and ornamental plants and also to the processing of fruits and vegetables.

The variations in climatic conditions found in North Carolina are conducive to the production of a wide variety of horticultural crops which are distributed throughout the state as commercial enterprises and as home gardens. While these crops now represent an important segment of agriculture in the state, further expansion will be realized with development of adapted varieties, mechanization and intensification of cultural practices, and improvement of handling and marketing methods.

— — — — — **FACILITIES**

The department has one of the best physical plants in the South for training students in Horticulture. Kilgore Hall, the new building to house Horticulture and Forestry, was completed in 1952 and contains adequate office, classroom, and laboratory space as well as necessary equipment for a well-rounded program of teaching and research. The departmental library, which supplements the College library, contains about twenty-five thousand technical and popular bulletins and current periodicals and journals covering all phases of Horticulture.

A greenhouse range makes approximately 25,000 sq. ft. of glass available for research and teaching. Nine cold storage rooms make possible intensive investigations dealing with storage, handling, and breeding problems.

A student laboratory with cold storage facilities is located on a twenty-five acre tract near the city limits of West Raleigh. Student gardens, orchards, nursery, flower plots, and vineyards are utilized for class instruction. Field research problems are conducted on this student laboratory farm and at ten of the branch stations and laboratories located in the various geographical sections of the state. Students have the opportunity of observing, firsthand, various phases of this research. Many students gain valuable experience as well as financial help by working part-time during the school year, or full-time in the summer, assisting in these programs.

New and enlarged facilities are available in the field of fruit and vegetable processing for both teaching and research. These include a modern, well-equipped processing laboratory; adjoining chemical and bacteriological laboratories; a freezing room; and storage lockers for frozen products.

— — — — — **OPPORTUNITIES**

Graduates in Horticulture hold many different types of positions including those of County Extension Agents; farm operators; orchard, nursery, greenhouse and flower shop managers; research and promotional workers with commercial seed, floral, chemical, and food companies; processing plant foremen; inspectors and quality control technologists; agents with the U.S.D.A. Regulatory Service; and as leaders in other phases of agricultural development.

AGRICULTURE

CURRICULUM IN HORTICULTURE— — — — —

The curriculum in Horticulture, which leads to the degree of Bachelor of Science in Horticulture, provides training for developing a background in the principles of the plant sciences and the application of these principles to problems of production, breeding, handling, storage, marketing, and processing of horticultural crops.

Five options are offered horticultural majors: (1) General Horticulture; (2) Fruit Crops; (3) Ornamental Crops; (4) Vegetable Crops; (5) Fruit and Vegetable Processing.

I. GENERAL HORTICULTURE OPTION

A. General curriculum requirements, (see pages 38, and 40).

B. Requirements by major field

	Credits
SOI 341	Soil Fertility and Fertilizers
BO 421	Plant Physiology
ENT 312	Economic Entomology
GN 411	The Principles of Genetics
HRT 481	Breeding of Horticultural Plants
PP 315	Plant Diseases

19

C. Electives in Horticulture

12-22

D. Electives in Agriculture and Forestry

9-19

II. FRUIT CROPS OPTION

A. General curriculum requirements, (see pages 38, and 40)

B. Same as 1(B) above

C. Requirements in specialized field

1. HRT 321, 421, 432, 532, and 562 16

D. Electives in Agriculture and Forestry 15

III. ORNAMENTAL CROPS OPTION

A. General curriculum requirements, (see pages 38, and 40)

B. Same as 1(B) above

C. Requirements in specialized field

1. HRT 201, 202, 212 or 412, 301, 311 or 442, 441, 512 20-21

D. Electives in Agriculture and Forestry 10-11

IV. VEGETABLE CROPS OPTION

A. General curriculum requirements, (see pages 38, and 40)

B. Same as 1(B) above

C. Requirements in specialized field

1. HRT 321, 421, 432, 562, 571 15

D. Electives in Agriculture and Forestry 16

V. FRUIT AND VEGETABLE PROCESSING OPTION

A. General curriculum requirements, (see pages 38, and 40)

B. Required by major department

1. In Horticulture

HRT 222, 321, 462, 521, 522 12

2. In other departments

AGE 331, BO 412, CH 211, 212

CH 421, 422, PY (4 SEMESTER CREDITS) 29

C. Electives in Agriculture and Forestry 10

— — — — — **PLANT PATHOLOGY**

Professor D. E. ELLIS, Head of the Department

Professors S. G. LEHMAN (Emeritus), J. L. ALLISON, C. N. CLAYTON,

F. A. HAASIS, L. W. NIELSEN, C. J. NUSBAUM

Associate Professors T. T. HEBERT, A. KELMAN, G. B. LUCAS, J. N. SASSER

Assistant Professors W. E. COOPER, N. N. WINSTEAD

— — — — — **OBJECTIVES**

Instruction in Plant Pathology is offered at both the undergraduate and graduate levels. Undergraduate instruction is designed to provide introductory and advanced courses in the nature and control of plant diseases to students majoring in agronomy, horticulture, agricultural education, and forestry and to provide students the fundamental training necessary for graduate study in Plant Pathology. Graduate courses are available for students majoring in any of the plant sciences as well as for those wishing to complete requirements for the degrees of Master of Science or Doctor of Philosophy in Plant Pathology.

— — — — — **FACILITIES**

Facilities consist of ample teaching and research laboratories, greenhouses, fields for experimental work, modern laboratory equipment, and other facilities essential to advanced research and teaching in Plant Pathology.

— — — — — **POULTRY SCIENCE**

Professor E. W. GLAZENER, Head of the Department

Professors C. W. BARBER, R. S. DEARSTYNE, Emeritus

Associate Professors J. W. KELLEY, T. T. BROWN, H. W. GARREN, C. H. HILL

Assistant Professors W. L. BLOW, F. W. COOK, D. FROMM, H. L. BURGARDNER, G. A. MARTIN

— — — — — **OBJECTIVES**

The Department of Poultry Science has as its objectives training the student in the principles of general poultry husbandry and related scientific fields, and the application of these principles to poultry biology; judging; preparation, grading, and processing of poultry products; hatchery and plant management; breeding; nutrition; and diseases. Through teaching, research, and extension, the department serves students, poultrymen, and allied industries. Poultry is an expanding industry in North Carolina with a gross income exceeding \$120,000,000 annually.

— — — — — **CURRICULUM**

The curriculum in Poultry Science, which leads to the degree of Bachelor of Science, is designed to give the student adequate and broad training in poultry science as preparation for work in the poultry industry, in allied fields, and as extension poultry specialists. The curriculum conforms to the General Curriculum of the School of Agriculture.

— — — — — **FACILITIES**

The teaching, research, and extension staff of the Department of Poultry Science are housed in Scott Hall. This building, which was completed in 1952-53, contains offices, classrooms, laboratories, and bird rooms. The laboratories and bird rooms are well equipped for teaching general poultry, hatchery management, poultry products, breeding, nu-

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trition, and diseases. A student library and reading room in Scott Hall provides access to poultry publications and scientific journals. Cooperatively with the N. C. Department of Agriculture, a disease diagnostic laboratory is maintained in Scott Hall. Some of the birds received by the laboratory serve as material for teaching.

The Department maintains off-campus teaching and research facilities at its Central Poultry Plant, located about two miles from the campus proper, and at two Experimental Station farms in the eastern and western parts of the state. A unit of layers is maintained exclusively at the Central Plant for teaching general poultry and judging.

The Central Plant consists of three units, two used for chickens and one for turkeys. Of the two units used for chickens, one is used primarily for rearing potential layers and for nutritional studies with broilers, and the second unit contains principally housing facilities for layers. Approximately 2,600 layers are housed each year for research and teaching purposes. A brick building, with this unit, provides additional facilities for teaching and research. Incubator, chick starting, and egg grading facilities are maintained on the first floor and a room equipped for conducting demonstrations and laboratories is located on the second floor.

The third unit consists of a turkey plant with two laying houses, two brooder houses, two confinement shelters, a feed mixing unit, and facilities for incubating, brooding, and ranging turkeys.

OPPORTUNITIES — — — — —

Graduates of the Poultry Department hold positions as poultry farm managers; poultry and egg inspectors; field representatives and servicemen for hatcheries, feed manufacturers, poultry processors, equipment companies, biological supply houses and other commercial concerns allied to poultry; journalism and public relations; self-employment; and teaching, extension, and research specialists.

STUDENT ACTIVITIES — — — — —

The Department sponsors two student activities, the Poultry Science Club and the Poultry Judging Team. Purposes of the Poultry Science Club are to bring together students and staff members who are interested in poultry, to provide programs of interest to both groups, and to participate in the activities of the Department and of the School of Agriculture.

The Poultry Judging Teams allow students to apply what they have learned in the classes of poultry judging. Each year qualified students selected for the teams go to the Southern Intercollegiate Poultry Judging Contest and to the National Intercollegiate Poultry Judging Contest to compete with teams from other colleges throughout the United States. The trophies won by the State College teams are on display in Scott Hall.

GENERAL CURRICULUM IN POULTRY SCIENCE — — — — —

See General Curriculum in Agriculture, page 40.

A minimum of 146 semester hours is required for graduation.

Students planning to major in Poultry Science should elect the General Curriculum in Agriculture. Those students who, prior to entering on the General Curriculum, decide to major in Poultry Science should consult with the Poultry Department course adviser by the end of the fall semester of the freshman year. Those students who, after entering the General Curriculum, elect to major in Poultry Science should consult with the course adviser as early as possible in the freshman or sophomore years, preferably by the end of the fall semester of the freshman year.

1 See page 38.

		Credits
2	BO 102	Agricultural Electives (Advised) 7
	CH 203	General Botany 3
	CH 451	General and Organic Chemistry and
		Introductory Biochemistry 7

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EC 201	Economics and	6
AGC 212	Economics of Agriculture	4
PO 201	Chicken and Turkey Production	
MS 201, 202	Military Science or	
or		4
AS 221, 222	Air Science	2
PE 201, 202	Physical Education	

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3		Agricultural Electives (Advised)	3
	ENG 231	Basic Speaking Skills	3
	HI 261	The United States in Western Civilization	3
	PY 211	General Physics and	
	SOI 200	Soils	8
	PS 201	The American Governmental System	3
	PO 301	Poultry Judging and Processing	4
	PO 303	Biology of the Fowl	3
	ZO 301	Animal Physiology and	
	GN 411	Principles of Genetics	6
		Advanced Military or Air Science or	
		Advised Electives	6

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4		English Elective	3
	PO 401	Poultry Diseases and	
	BO 412	General Bacteriology	8
	PO 402	Commercial Poultry Farm and	
		Hatchery Management	4
	PO 403	Poultry Seminar	2
	PO 520	Poultry Breeding and	
	PO 521	Poultry Nutrition	6
		Social Sciences and Humanities	6
	RS 301	Sociology of Rural Life	3
		Advanced Military or Air Science or	
		Advised Electives	6

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RURAL SOCIOLOGY

Professor C. HORACE HAMILTON, Head of the Department

Professor SELZ C. MAYO

Assistant Professors FREDERICK L. BATES, SHELTON G. LOWERY, JAMES N. YOUNG

OBJECTIVES

The principal aim of this department is to teach students the principles and techniques for understanding human group behavior. More specifically the department seeks (1) to train students to become leaders in organizing rural groups and communities and in administering their programs; (2) to qualify exceptional students on the undergraduate and graduate levels for rural sociological research, teaching, and extension work; (3) to solve problems in human group relations through scientific research; and (4) to extend research results to the people of the state.

The Department of Rural Sociology is closely related to and dependent upon other social science departments at State College and at other units

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of The Consolidated University. Students majoring in rural sociology are expected to take courses in such departments as Psychology, Statistics, Economics, Agricultural Economics, History and Political Science. Agricultural electives may be chosen by rural sociology students from a list of courses most closely related to sociology, including economic theory, adult education, agricultural cooperation, agricultural policy, genetics, statistics, and human physiology.

The Department also functions in a similar service capacity to other departments, both in the School of Agriculture and in the entire college. Students majoring in any of the technical agricultural curricula may take courses in rural sociology as electives in either social science or agriculture; courses offered by the Department may be chosen as social science electives by students from any department in the College.

CURRICULUM

As will be noted below, students in rural sociology have a wide choice of courses. This is true not only in the social sciences but also in the physical and biological sciences, the humanities, and technical agriculture. Consequently, the student can modify his program as his vocational and avocational goals change, thus qualifying himself for further professional training or for employment requiring specialized knowledge.

FACILITIES

The Department of Rural Sociology is constantly engaged in sociological studies of rural population, rural standards and levels of living, rural communities, and related problems. Funds, laboratory equipment, and other facilities for this work are provided by the Agricultural Experiment Station and are available for the use of advanced students under the supervision of faculty members. In a broader sense the entire state is a laboratory for the study of rural social problems. The field work phases of the research projects may be carried out by advanced students at appropriate times throughout the year.

OPPORTUNITIES

Graduates of this Department may obtain employment as community organization specialists, county agents, social welfare workers, social statisticians, administrators and managers of both public and private social agencies, college teachers, research workers, and in many other capacities. Among the institutions offering employment to graduates are land-grant colleges, agricultural experiment stations, and extension services; the United States Departments of Agriculture, State, and Health, Education and Welfare; state departments of welfare, health, and education; farm journals and newspapers; voluntary social agencies, such as Red Cross, Community Chest, and Boy Scouts; and rural fraternal organizations and cooperatives. The range of vocational pursuits open to rural sociology graduates is constantly widening.

CURRICULUM IN RURAL SOCIOLOGY

A minimum of 146 credits required for graduation

1 See page 38.

		Credits	
2	AGC 212	Economics of Agriculture	0 3
	CH 101	General Inorganic Chemistry	4 0
	CH 203	General and Organic Chemistry	0 4
	EC 201	Economics	3 0
	HI 261	The United States in Western Civilization	0 3
	PY 211	General Physics	0 4
	PSY 200	Introduction to Psychology	3 0
	RS 301	Sociology of Rural Life	3 0

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	Electives	3	3	
MS 201, 202	Military Science or			
or				
AS 221, 222	Air Science	2	2	
PE 201, 202	Physical Education	1	1	
		<hr/>	<hr/>	
		19	20	
3	SOI 200	Soils	4	0
	ENG 231	Basic Speaking Skills	3	0
	ENG 362	Backgrounds of English Civilization	0	3
	PS 201	The American Governmental System	0	3
	RS 321	Introduction to Social Research	3	0
	RS 442	Rural Social Structure	0	3
	SOC 251	General Anthropology	2	0
	ST 311	Introduction to Statistics	0	3
	Electives	3	3	
	Advanced Military or Air Science	3	3	
		<hr/>	<hr/>	
		18	18	
4	English elective	3		
	Four courses in rural sociology and related social sciences	6	6	
	Electives	6	6	
	Advanced Military or Air Science or			
	Electives	3	3	
		<hr/>	<hr/>	
		18	15	

SOILS

Professor J. W. FITTS, Head of the Department

Assistant Professor HOMER C. FOLKS, In Charge, Soils Teaching

Professors W. V. BARTHOLOMEW, N. T. COLEMAN, W. E. COLWELL, N. S. HALL, J. F. LUTZ, S. L. TISDALE, W. G. WOLTZ, W. W. WOODHOUSE, JR.

Associate Professors W. D. LEE, R. H. MCCracken, A. MEHLICH, J. R. PILAND, W. H. RANKIN, AND C. H. M. VAN BAVEL

Assistant Professors E. J. KAMPRATH, C. B. MCCANTS, P. H. REID, R. H. VOLK, S. B. WEED

OBJECTIVES

The primary objectives of the Soils curriculum are to train students in the fundamental principles of Soils, their utilization and management. Soils constitutes one of the largest capital investments in farming and proper soil management is essential for efficient production. Therefore, the demand by education, research and service agencies and by industry for men trained in soils should continue to be great.

FACILITIES

Excellent office, lecture rooms and laboratory facilities are provided for the Department of Soils in Williams Hall, a new, modern building. In addition, greenhouses are located immediately to the south of Williams Hall in which both teaching and research are conducted. With an extensive research program in operation it is necessary to carry on part of this research at out-lying experimental farms. There are seventeen experimental farms located throughout the state in the major agricul-

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tural areas. Both undergraduate and graduate students have the opportunity of observing and participating in current research on these farms.

OPPORTUNITIES — — — — —

Soils graduates are trained to fill positions as County Extension agents; farm operators and managers; Soil Conservation Service representatives; technicians or salesmen in fertilizer companies and similar commercial concerns; and as leaders in other areas of agricultural work. Provision is also made in the soils curriculum for those students who wish to obtain a more thorough training in Mathematics, Chemistry, Physics and Biological sciences in anticipation of graduate study. Students with advanced degrees have unlimited opportunities in teaching, research and extension and state and federal institutions as well as increasing opportunities with commercial concerns.

STUDENT TOUR — — — — —

One of the highlights of the undergraduate curriculum is a tour of the State taken jointly by the students in Soils and Field Crops during the junior year. This tour is normally taken immediately following the end of the spring term and lasts for approximately six days. During this time the student visits all of the principal farming regions in the state and has an opportunity to observe management practices used on representative farms in each region. He also visits a number of the state agricultural experiment stations as well as various commercial concerns such as fertilizer manufacturers, seed producers, and tobacco companies. This tour serves the purpose of providing the student with a better concept of the various agricultural enterprises throughout North Carolina.

GENERAL SOIL SCIENCE CURRICULUM — — — — —

The general Soils curriculum is designed to give a student basic training in agricultural science with emphasis on soils as a medium for plant growth.

146 Credits required for graduation

1 See page 38

			Credits
2	CH 101	General Inorganic Chemistry (if not taken in Freshman Year)	4 0
	CH 103	General and Qualitative Chemistry or	
	CH 203	General and Organic Chemistry	4 or 0 4 or 0
	EC 201	Economics and	
	AGC 212	Economics of Agriculture	3 3
	PY 211	General Physics and	
	HI 261	The United States in Western Civilization	4 or 3 4 or 3
		Third and Fourth year required courses* or	
		Advised electives	6 6 or 9
	MS 201, 202	Military Science or	
	AS 221, 222	Air Science	2 2
	PE 201, 202	Physical Education	1 1
			19 or 20 19 or 20

A. Required Courses

3 ^ v 4	ENG 231	Basic Speaking Skills	Credits	3
		English Elective		3
	MIG 120	Physical Geology		3
	PS 201	American Governmental System		3
	RS 301	Sociology of Rural Life		3
		Humanities		6
	BO 412	General Bacteriology		4
	BO 421	Plant Physiology		4
	SOI 200	Soils		4
	SOI 302	Soils and Plant Growth		3
	SOI 341	Soil Fertility and Fertilizers		3
	SOI 352	Soil Classification		3
	SOI 461	Soil Conservation and Management		3
				—
				15

B. Advised Electives

1. If advanced military is taken a student should elect 12 additional credits from the following list. Courses other than those listed may be taken with the approval of the adviser.
2. If advanced military is not taken, 24 additional credits should be elected from the following list. Courses other than those listed may be taken with the approval of the adviser.

AGE 321	Irrigation, Drainage and Terracing	3
AGC 303	Farm Management I	3
AGC 405	Agricultural Law	3
CH 215	Quantitative Analysis	4
FC 211	Field Crops	3
FC 312	Pasture and Forage Crops	3
FC 413	Plant Breeding	3
FC 414	Weeds and Their Control	3
AI 201	Elements of Dairy Science	4
AI 202	Fundamentals of Animal Husbandry	4
BO 203	Introduction to Systematic Botany	3
BO 441	Plant Ecology	3
ENT 312	Economic Entomology	3
FOR 311	Principles of Farm Forestry	2
GN 411	Principles of Genetics	3
MIG 330	Mineralogy	3
HRT 421	Fruit Production	3
HRT 432	Vegetable Production	3
PP 315	Plant Diseases	3
PO 201	Chicken and Turkey Production	4
ST 311	Introduction to Statistics	3

STATISTICS

See Experimental Statistics

* Courses which are listed as required in the Junior and Senior year may be taken in the Sophomore year with permission of the adviser. It is desirable for the student to take SOI 200, BO 421 and MIG 120 in the Sophomore year if possible.

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ZOOLOGY — — — — —

Professor F. S. BARKALOW, JR., Head of the Department
Professors B. B. BRANDT, R. HARKEMA
Associate Professors R. B. CASADY, D. S. GROSCH, T. L. QUAY
Assistant Professor W. W. HASSLER, E. M. LOWRY
Instructor H. A. OGREN

OBJECTIVES — — — — —

The Department of Zoology at North Carolina State College is organized to serve three purposes. (1) It serves the schools of Agriculture, Forestry, and Education by teaching courses of a fundamental nature essential to complete understanding and mastery of applied science. (2) It provides training in technical zoology which prepares students for positions in industrial and government laboratories. (3) It provides undergraduate curricula leading to graduate and professional training in the dental, medical, veterinary, and advanced zoological sciences. (4) It furnishes potential leaders in the field of wildlife conservation and game management through a curriculum in Wildlife Conservation and Management which is offered as part of the work in zoology.

CURRICULUM IN WILDLIFE CONSERVATION AND MANAGEMENT — —

Interest in wildlife, hunting, and fishing is prerequisite to a career as a wildlife biologist, but enthusiasm alone is not sufficient. A student must possess scholastic aptitude, initiative, and the ability to use the tools of pure and applied biology.

The wildlife curriculum is based on the following principles: all major forms of plant and animal life must be considered in wildlife management; if provided a favorable environment, a wildlife species will usually produce surpluses which can be harvested. Since wildlife conservation and management is essentially applied biology, the curriculum is designed to provide a thorough knowledge of zoology and botany.

Every phase of the wildlife field involves numerous contacts with the public. The ability to speak and write effectively is a valuable asset. The course requirements in English and the humanities were selected to provide such training.

Stream pollution and fisheries problems require a knowledge of chemistry for their solution. Adequate courses are included in the curriculum to satisfy this training need.

CURRICULUM IN ZOOLOGY — — — — —

The curriculum in Zoology is designed to train the student in the fundamental principles of zoology and the application of these principles to the various fields of agriculture. The curriculum prepares students for further training in animal ecology, wildlife, or zoology at the graduate level. It is also available to those pre-veterinary, pre-medical and pre-dental students who wish additional training in the zoological field.

1. The curriculum in Zoology follows the general curriculum in Agriculture as outlined in the catalog, page 40.
2. At least four courses in addition to General Zoology will be elected from offerings of the Zoology Department. Two of these must be (1) Comparative Anatomy, and (2) Animal Physiology.
3. Recommended courses in allied fields will include: genetics, entomology, bacteriology, systematic botany, plant ecology, and plant pathology.
4. A foreign language is advisable and recommended for those preparing for graduate study.

— — — — — OPPORTUNITIES

The zoology curriculum is sufficiently flexible to provide the basic training for students who wish to continue their education at the graduate level, or its equivalent, in the numerous special phases of the biological sciences, such as parasitology, genetics, anatomy, physiology, wildlife, the allied medical and veterinary fields, and others.

Five categories of positions are available to wildlife graduates: administrative, law enforcement, refuge, education, and research. Agencies employing the majority of trained men are: State games and fish departments, U. S. Fish and Wildlife Service, U. S. Forest Service, U. S. Soil Conservation Service, U. S. National Park Service, and other federal land-use departments. The curriculum is designed to furnish a technical and practical foundation for employment with these agencies.

Employment opportunities continue to be good, especially at the graduate level. No excess of wildlife graduates is anticipated in the immediate future.

Unusual advantages are offered by the wide range of natural environments in the North Carolina Coastal Plain, Piedmont and Mountain Regions. Close cooperation with the North Carolina Wildlife Resources Commission provide opportunities for observing developments in wildlife management on its fifteen wildlife management and refuge areas.

SPECIALIZED CURRICULUM IN WILDLIFE CONSERVATION

— — — — — AND MANAGEMENT

			Credits	
1	AG 101	Agriculture and World Affairs	3	0
	BO 101, 102	General Botany	3	3
	ENG 111, 112	Composition	3	3
	HI 261	The United States in Western Civilization	3	0
	MA 111	Algebra and Trigonometry	0	4
	PS 201	The American Governmental System	0	3
	ZO 101, 102	General Zoology	3	3
	MS 101, 102	Military Science or		
	or			
	AS 121, 122	Air Science	2	2
	PE 101, 102	Physical Education	1	1
			18	19
2	CH 101	General Inorganic Chemistry	4	0
	CH 203	General and Organic Chemistry	0	4
	EC 201	Economics	3	0
	MA 112	Analytic Geometry and Calculus A	0	4
	PY 211	General Physics	0	4
	ZO 223	Comparative Anatomy	4	0
	ZO 252	Ornithology	0	3
	ZO 321	Wildlife and Natural Resource Conservation	3	0
	MS 201, 202	Military Science or		
	or			
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
		Botany Elective	2	0
			19	18

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			Credits	
3	SOI 200	Soils	4	0
	BO 203	Introduction to Systematic Botany	0	3
	CH 103	General and Qualitative Chemistry	0	1
		English Elective	3	or 3
	ENT 301	Introduction to Forest Insects or		
	ENT 312	Economic Entomology	3	or 3
	FOR 311	Principles of Farm Forestry	2	0
	RS 301	Sociology of Rural Life	0	3
	ZO 301	Animal Physiology	0	3
	ZO 521	Fishery Biology	3	0
		Advanced Military or Air Science or		
		Recommended Electives	5	3
			<hr/>	<hr/>
			17	19
4	BO 441	Plant Ecology	3	0
	ENG 231	Basic Speaking Skills	3	0
	MIG 120	Physical Geology	0	3
	ZO 315	Animal Parasitology	0	3
	ZO 522	Animal Ecology	0	3
	ZO 551, 552	Wildlife Management	3	3
		Advanced Military or Air Science or		
		Recommended Elective	3	0
		Advanced Military or Air Science or		
		Free Elective	0	3
		Free Electives	6	3
			<hr/>	<hr/>
			18	18

Recommended Electives—Junior and Senior Years

Students not taking Advanced Military or Air Science are required to select nine hours of electives from the following list:

AGC 212	Economics of Agriculture	3	
BO 412	General Bacteriology	4	
BO 521	Systematic Botany of Monocot Families	3	
BO 573	Aquatic Botany	3	
GN 411	Principles of Genetics	3	
CE 201	Surveying I	3	
IA 203, or	Practical Drafting, or		
ME 101	Engineering Drawing	2	or 2

CURRICULUM FOR PRE-VETERINARY STUDENTS — — — — —

1	AG 101	Agriculture and World Affairs	3	0
	BO 101, 102	General Inorganic Chemistry	0	4
	CH 101	General Botany	3	3
	ENG 111, 112	Composition	3	3
	MA 111	Algebra and Trigonometry	4	0
	MA 112	Analytic Geometry and Calculus	0	4
	ZO 101, 102	General Zoology	3	3
	MS 101, 102	Military Science or		
	AS 121, 122	Air Science	2	2
	PE 101, 102	Physical Education and Hygiene	1	1
			<hr/>	<hr/>
			19	20

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2	AI 201	Elementary Dairy Science	4	0 or 0-1
	AI 202	Fundamentals of Animal Industry	0	4 or 4-0
	CH 103	General and Qualitative Chemistry	4	0
	CH 203	General and Organic Chemistry	0	4
	HI 261	The United States in Western Civilization	0	3
	PY 211	General Physics	0	4
	PO 201	Chicken and Turkey Production	4	0
	ZO 223	Comparative Anatomy	4	0
	MS 201, 202	Military Science or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			19	18

3	CH 451	Introductory Biochemistry	3	0
	AGC 212	Economics of Agriculture	0	3
	EC 201	General Economics	3	0
	ENG	English Literature or writing	0	3
	ENG 231	Basic Speaking Skills	3	0
	SOI 200	Soils	0	4
	PS 201	The American Governmental System	0	3
	RS 301	Sociology of Rural Life	3	0
	Elective	Allied Field or Agri. Elective,		
		& Major Field	3	3
	Elective	(Humanities and/or Social Sciences)	3	3
			<hr/>	<hr/>
			18	19

4

With proper choice of courses in years 1-3 and with appropriate administrative approval, a maximum of 42 hours at veterinary school can count as the senior year for the B.S. in Agriculture. A total of 146 semester hours is required for graduation.

The senior year may be spent at State College.

In either case, the General curriculum in Agriculture (as officially approved) will be followed.

— — — — THE AGRICULTURAL EXPERIMENT STATION

D. W. COLVARD, *Dean of Agriculture*

R. W. CUMMINGS, *Director of Research*

— — — — — ESTABLISHMENT

The Agricultural Experiment Station was established in accordance with an Act of the General Assembly of 1877. Its progress has been enhanced by several Acts of Congress giving the Station additional funds: the Hatch Act of 1887, the Adams Act of 1906, the Purnell Act of 1925, the Bankhead-Jones Act of 1935, and the Research and Marketing Act of 1946. The North Carolina General Assembly has allocated to the Station annually certain funds from the General Fund.

— — — — — OBJECTIVES

The purpose of the Agricultural Experiment Station is to study the basic laws of nature underlying agricultural enterprises and to develop methods for economic production of the highest grades of livestock.

AGRICULTURE

poultry, and plants on the many soil types and under the varied conditions existing in North Carolina; to study methods for the control of parasitic insects and organisms that cause serious economic losses of animals, poultry, and plants; to find and develop varieties of animals, poultry, and plants new and resistant to diseases and the changeable conditions prevailing in the state; and to perfect better marketing for all agricultural products.

The staff of the Experiment Station conducts experiments in the green-houses and laboratories of the College, and throughout the state on areas owned by farmers, on nineteen strategically located experimental farms, and on farms rented for short periods.

The agricultural research aims, through the discovery of new facts, to improve the well-being of farmers throughout the state; to strengthen the regulatory work of the State Department of Agriculture; to develop new and necessary facts for the teaching of sound agricultural principles by vocational agricultural instructors, agricultural extension agents, and agricultural instructors in the College.

The Agricultural Experiment Station staff brings to the College many experts, whose teaching in many specialized fields of agriculture assures the maintenance of curricula of high standards. It contributes much to the advanced training of students who are destined to become the leaders, teachers, and investigators necessary in the maintenance of agriculture on sound and economic planes.

PUBLICATIONS — — — — —

The Agricultural Experiment Station publishes many bulletins and scientific papers on results of research conducted by the staff. These are free and are sent upon request to anyone in the state.

SERVICES — — — — —

The staff diagnoses and interprets many problems for the farmers of North Carolina. It holds council with farmers and others interested in the agricultural industry, presents radio programs devoted to the discussion of farming procedures, and writes many letters on more specific problems of agriculture at the request of farmers, members of garden clubs, and manufacturers of fertilizer, fungicides, and insecticides. It also takes part in many of the administrative functions of the College.

COOPERATIVE AGRICULTURAL EXTENSION WORK — —

- D. W. COLVARD, *Dean of Agriculture*
- I. O. SCHAUB, *Director Emeritus of Extension*
- DAVID S. WEAVER, *Director of Extension*

SUPPORT — — — — —

The Agricultural Extension Service of State College is conducted co-operatively with the United States Department of Agriculture and with the one hundred counties in North Carolina. Its work is supported by Federal funds derived from the Smith-Lever Act of 1914, the Capper-Ketcham Act of 1928, the Bankhead-Jones Act of 1935, the Bankhead-Flannagan Act of 1945, and by State and County appropriations. Federal and State appropriations are used to maintain an administrative and specialist staff and to supplement salaries and travel expenses of County Extension Agents, who are located at each county seat in the state.

— OBJECTIVES

The purpose of the Extension Service is to take to the rural people of North Carolina the latest and best information obtainable for building a more prosperous and satisfying life on the farm. In carrying out this purpose, the College maintains a staff of trained specialists, a system of County Agents and assistants, and Home Demonstration Agents who work with the farmer and his family and who administer a state-wide educational program. In this program, the Extension Service employs a variety of methods and devices. These include methods and results demonstrations for group meetings, a training program for farm leaders within the community, and close contact with organized clubs of men, women, and young people. The service also publishes a great number of pamphlets, bulletins, and circulars which it distributes free. In addition, it holds a number of short courses, both on the College campus and elsewhere throughout the state, to offer rural leaders advice and training in creating better homes and farms and in using more efficient farming practices.

— SHORT COURSES

These courses vary in length from a few days to eight weeks. They are designed for young people who desire some training in the principles of agriculture, but who find it impossible to take the regular college course, and for mature individuals who wish to become familiar with the most recent agricultural practices. It is the aim of these courses to make better farmers—to help them produce better fruit, vegetables, livestock, and poultry, and to obtain greater satisfaction and profit from the time, energy, and money expended. Most of the courses will be given during the winter months, and a bulletin will be issued each fall announcing the courses which will be offered during the following months. This bulletin and other information about the short courses may be secured by writing to the Director of Short Courses, College Extension Division, State College Station, Raleigh, North Carolina.

SCHOOL OF DESIGN

HENRY L. KAMPHOEFNER, DEAN

INTRODUCTORY

In 1948 the School of Design was organized through the combination of the existing Departments of Architecture and Landscape Architecture. It is devoted and dedicated to the development of a native architecture and its accompanying art forms for the southern region.

The school in its teaching recognizes the dangers inherent in a materialist-mechanistic civilization where there may be an over-reliance on the machine and the mechanical devices available for use to man in his constructions for shelter. We give attention, therefore, to that larger responsibility of architecture, the art of humanizing the environment.

And, while the natural and organic aspects of design are stressed, the international and universal aspects of design are also respected and related to the humane patterns of life. We seek to integrate the architect as a social human being and the architect as scientist-engineer, and we encourage and nurture the architect-engineer as the coordinator of the structural dynamics in the over-all pattern of life.

While our first aim is to serve North Carolina and the regions of the south, we believe that our students will be equipped, through the teaching of the school, to work in any region.

Because character, a profound devotion, and an absolute professional commitment are prime ingredients of any creative activity where the social responsibilities are as vital as in architecture and design, we foster and cultivate the integrity of the individual.

Individual creative expression is emphasized as the epitome of good design, but teamwork is also encouraged and developed as a necessity of humane progress in the machine civilization of the day. We believe that the "prima donna" who isolates himself behind the intellectual barrier of his own self-sufficiency fails to recognize and understand the importance and necessity of the formal technique of compromise as a dominant factor of design as related to the social pattern of life—just as nature in all her workings adjusts to all pressures and all tensions.

The faculty of the School of Design has been selected for their individual and diverse personal philosophies and their individual yet divergent professional qualifications. We have brought together creative personalities willing in their teaching to subordinate their own professional interests to the pedagogically more important interests of their students. Here a community of scholars working each in his own way searches for the truth as he sees it, giving the young student the benefit of his professional knowledge, his technical training, and his experience as a citizen. We encourage the student to sift and sort this diversity of opinion, even though in this process he is usually stimulated and occasionally confounded. In the end we are confident that he arrives through this process at an ability to shape his own conclusions.

To combat the dangers of over-specialization we seek to develop the personality and character as a whole. The goal in the growth of the student is not only the mastery of the architectural techniques of the profession; but through the stimulation and development of the intellectual and emotional capacities together, a readiness is developed to meet the challenge of any environment.

The School of Design is intended to act as an educational center which unifies different design professions in the fundamental knowledge and methods which they share; its further intention is the education of men

who will be competent within the specific demands and limitations of a particular professional field of design. The existence of contemporary design is considered to be a requirement of contemporary man, and the greatest purpose of contemporary design is considered to be the solution of those requirements through full use of the ingenuity and knowledge of contemporary man. Through this point of view the technical and factual aspects of design present no conflict with its philosophical and aesthetic standards, for one is but the particularization of the other. The course is based upon a belief in the basic ambivalence of the process of designing.

The two professional fields, and future ones, have been grouped under one broad and unified study of the methods and values which are common to all designers, and they are separated only in the study of their application in the work of a single profession. Many classes throughout the curricula will include students in these professional fields; and for all students the course of study is the same during the first year in order that, having become more familiar with the whole scope of activity in design, they may then select the design profession in which they are most interested. When this selection has been made the unity of the school and frequent collaboration prevent the unnatural isolation of any professional group.

Training in drawing, painting, sculpture, and other visual arts is conducted by specialists within the staff of the School of Design; the essential knowledge of techniques and materials is taught by this faculty and other departments of the college; and the past and present of the professions are taught by this faculty. These ingredients of design training are assimilated through their application in the design courses. Thus the student is required to combine these studies increasingly as he advances through the course so that he may achieve that comprehensive combination which is a necessity in the designer. Much of the student's work will be done in laboratory courses since design is a matter of the application of knowledge rather than its mere accumulation. From his first day in class to his last the student is asked to design and he is counseled so that he may become a responsible professional in the broadest sense.

CURRICULA

The School of Design offers professional instruction to the undergraduate in Architecture and Landscape Architecture. A graduate program in both fields is being projected for the near future.

A third Department, of Products Design, is being planned which will concern itself with problems of form and aesthetics as related to the design and fabrication of industrial products. The new department will actively collaborate with a number of existing departments on the campus which are now engaged in management and production.

DEGREES

The five year curricula offer courses of study leading to the Bachelor of Architecture and the Bachelor of Landscape Architecture.

FACILITIES

In January, 1956, the School of Design moved to Brooks Hall on the College Campus. Brooks Hall is the former Hill Library, built in 1928 and vacated in 1954 after a new million and a quarter dollar library for the College was completed with State funds. The new Brooks Hall is a remodeling of 28,000 square feet of floor space and a new addition of 20,000 square feet. All of the facilities of the School are now in modern, especially designed quarters under one roof.

DESIGN

OPPORTUNITIES — — — — —

State law now requires the graduate architect to work not less than three years in the offices of registered architects and to pass the four day written examination given by the State Board of Architectural Examination and Registration before he is ready to commence his own practice. The great national boom in building construction since World War II has brought a tremendous volume of work into the offices of the south offering many attractive positions for the architectural graduate. The architectural graduate is also qualified for positions in certain branches of engineering, building research and teaching.

Usually the landscape architect practices in one of two ways. He may be a private practitioner with an office serving clients who come to him for help and advice in the same manner as a lawyer, engineer or architect; or he may be an employee of a private or public organization. Organizations commonly employing landscape architects include other practicing landscape architects, city planners, engineers, architects; national, state and municipal recreation agencies; parkway and highway departments housing agencies, planning commissions, conservation departments, and universities. Private concerns such as plant nurseries, pri-vate estates, botanical and zoological gardens, or construction companies may also employ landscape architects.

Testimony to the soundness of the course of study and program of North Carolina State College is reflected by two of the Department's recent graduates who have been awarded the Prix de Rome in Landscape Architecture--a prize awarded annually to any graduate landscape architect in the United States affording two years advance study in Europe and providing all expenses and residence at the American Academy in Rome.

ARCHITECTURE — — — — —

- Professor* WILLIAM L. BAUMGARTEN
Professor-Emeritus ROSS SHUMAKER
Visiting Professor HORACIO CAMINOS
Associate Professors JOSEPH H. COX, CECIL D. ELLIOTT, ROY GUSSOW,
GEORGE MATSUMOTO, DUNCAN R. STUART
Visiting Associate Professor STEFAN BUZAS
Assistant Professors JAMES E. ADAMS, ENRIQUE MONTENEGRO
Visiting Assistant Professor GUISEPPI GUARNIERI
Instructors JULIAN BEINART, GEORGE L. BIRELINE, JR., CHARLES M.
SAPPENFIELD, HERBERT B. SIMON
Librarian MRS. JAMES A. LYONS

CURRICULUM — — — — —

		Credits	
ARC 101, 102	Introduction to Architecture	2	2
DN 101, 102	Design I, II	3	3
DN 111, 112	Descriptive Drawing I, II	3	3
ENG 111, 112	Composition	3	3
MA 101, 102	First Year Mathematics for Engineers	5	4
MS 101, 102	Military Science I		
or	or		
AS 121, 122	Air Science I	2	2
PE 101, 102	Physical Education	1	1
		18	17

DESIGN

2	DN 201, 202	Design III, IV	4	5
	DN 211, 212	Descriptive Drawing III, IV	2	2
	EM 311	Mechanics I (Statics)	0	3
	MA 201	Calculus I	4	0
	PY 211, 212	General Physics	4	4
	SS 301, 302	Contemporary Civilization	3	3
	MS 201, 202	Military Science II		
		or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/> 20	<hr/> 20

Summer Requirement: Two Weeks on Regional Research Project.

3	ARC 301, 302	Architectural Design I, II	6	6
	CE 338, 339	Structures I, II	3	3
	DN 311, 312	Descriptive Drawing V, VI	2	2
	DN 331, 332	History of Design I, II	3	3
	EM 321	Strength of Materials I	3	0
	ME 377	Building Mechanics A	0	3
		Electives*	3	3
			<hr/> 20	<hr/> 20

Summer Requirement: Eight Weeks on Approved Construction or Office Project.

4	ARC 401, 402	Architectural Design III, IV	6	6
	CE 435, 436	Structures III, IV	3	4
	DN 411, 412	Descriptive Drawing VII, VIII	2	2
	DN 422	Office Procedure I		2
	DN 431, 432	History of Design III, IV	3	3
	ME 373	Building Mechanics	3	0
		Electives*	3	3
			<hr/> 20	<hr/> 20

5	ARC 501, 502	Architectural Design V, VI	6	6
	CE 497, 498	Engineering Consultation	2	2
	DN 511, 512	Descriptive Drawing IX, X	2	2
	DN 521	Office Procedure II	2	
	DN 531	History of Design V	3	
		Philosophy of Design I, II	2	2
		Electives**	3	9
			<hr/> 20	<hr/> 21

* The curriculum in Architectural Engineering was discontinued in September, 1948.

** Six credits of elective in the 5th year will be required in American, English, or World Literature, the remaining six in the Humanities and Social Sciences. Advanced Military may be selected as an elective in the 3rd and 4th year.

Total Credits for the Bachelor of Architecture: 196.

— LANDSCAPE ARCHITECTURE

Professor EDWIN G. THURLOW

Associate Professors JOSEPH H. COX, ROY GUSSOW, DUNCAN R. STUART

Visiting Associate Professor LENIS J. CLARKE

Assistant Professor ENRIQUE MONTENEGRO

Instructors GEORGE L. BIRELINE, JR., HERBERT B. SIMON

DESIGN

CURRICULUM

			Credits	
1	DN 101, 102	Design I, II	3	3
	DN 111, 112	Descriptive Drawing I, II	3	3
	ENG 111, 112	Composition	3	3
	MA 111, 112	Algebra and Trigonometry	4	4
	ME 103, 104	Descriptive Geometry	2	2
	MS 101, 102	Military Science I		
	or			
	AS 201, 202	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/>	<hr/>
			17	17
2	BO 101	General Botany	3	0
	CE 201	Surveying I	3	0
	DN 201, 202	Design III, IV	4	5
	DN 211, 212	Descriptive Drawing III, IV	2	2
	EM 311	Mechanics I (Statics)	0	3
	LA 212	Landscape Construction I		3
	SS 301, 302	Contemporary Civilization	3	3
	MS 201, 202	Military Science II		
	or			
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			18	19
3	DN 311, 312	Descriptive Drawing V, VI	2	2
	DN 331, 332	History of Design I, II	3	3
	HRT 201, 202	Woody Plants	3	3
	LA 301, 302	Landscape Design I, II	6	6
	LA 311, 312	Landscape Construction & Materials I, II	4	4
		Electives*	3	3
			<hr/>	<hr/>
			21	21
Summer Requirement: Two weeks on Regional Research Project				
4	DN 411, 412	Descriptive Drawing VII, VIII	2	2
	DN 431, 432	History of Design III, IV	3	3
	HRT 212	Herbaceous Plants	0	2
	LA 401, 402	Landscape Design III, IV	6	6
	LA 421, 422	Planting Design	4	4
		Electives*	6	3
			<hr/>	<hr/>
			21	20
Summer Requirement: Eight weeks Approved Professional Experience.				
	DN 422, 521	Office Procedure I, II	2	2
	DN 511, 512	Descriptive Drawing IX, X	2	2
	DN 531	History of Design V	3	3
	DN 541, 542	Philosophy of Design I, II	2	2
	LA 501, 502	Landscape Design V, VI	8	9
		Electives*	4	6
			<hr/>	<hr/>
			21	21

* Six credits of elective will be required in American, English, or World Literature, the remaining six in Humanities and Social Science. Advanced Military may be selected as an elective in the 3rd or 4th year.

Total Credits for the Bachelor of Landscape Architecture—196

SCHOOL OF EDUCATION

J. BRYANT KIRKLAND, DEAN

T. E. BROWNE, DIRECTOR EMERITUS

INTRODUCTORY

The maximal social and economic development of the citizenry of North Carolina is dependent to a great extent upon the contributions of its educational institutions. The current and anticipated increase in the population of secondary school age youth necessitates a greater number of competent teachers in the public schools of North Carolina, particularly in the areas of vocational agriculture, industrial arts, industrial education, mathematics, and science.

The School of Education comprises the following departments: Agricultural Education, Industrial Arts, Industrial Education, Industrial and Rural Recreation, Mathematics and Science Education, Occupational Information and Guidance, and Psychology.

The Department of Agricultural Education is the only one in this state that prepares teachers of vocational agriculture to conduct organized instructional programs of vocational agriculture for prospective and present farmers.

If the youth of North Carolina, particularly those in the non-farm areas, are to become familiar with the increasingly available occupational opportunities which accompany an industrial expansion and are to be given the training needed for entrance into the industrial occupations of their choice, public schools will need to employ a larger number of competent teachers of Industrial Arts and Industrial Education.

The acute shortage of persons qualified to teach Mathematics and Science in the public schools and the demand for graduates with Mathematics and Science backgrounds in industrial positions have made employment opportunities in these areas very good.

Improved methods in industry and the use of mechanized equipment on farms have resulted in more leisure time on the part of urban and rural workers and their families. The Department of Industrial and Rural Recreation contributes much to a better use of this leisure time by training recreational leaders for the municipalities, industries, and rural areas of the state.

The Department of Occupational Information and Guidance provides the public schools with teachers and vocational counselors who render valuable assistance to high school youth in making wise vocational choices.

The Department of Psychology serves the various industries in the state by helping to improve their personnel selection programs and by conducting research designed to ascertain what factors influence efficiency of industrial employees.

The primary purpose of the Departments of Agricultural Education, Industrial Arts, Industrial Education, and Mathematics and Science Education is that of preparing students to become teachers in North Carolina's public schools. Satisfactory completion of the curriculum requirements in any of these departments qualifies a graduate to receive an A Grade certificate to teach in his chosen subject matter area.

EDUCATION

The curriculum in Industrial and Rural Recreation is designed primarily to prepare students to become leaders of recreation programs in industry, institutions, and rural areas.

The Department of Psychology and Occupational Information and Guidance offer service courses for undergraduate students in the School of Education and other schools. These departments are primarily concerned, however, with offering professional instruction at the graduate level for Industrial Psychologists and Vocational Counselors.

CURRICULAR OFFERINGS AND DEGREES — — — — —

Upon the satisfactory completion of one of the undergraduate curricula in the School of Education, a student is eligible to receive the degree of Bachelor of Science with the name of his area of specialization: in Agricultural Education, Industrial Arts, Industrial Education, Industrial and Rural Recreation, Mathematics Education and Science Education.

The Master of Agricultural Education, Industrial Arts Education, Industrial Education, and Occupational Information and Guidance is awarded to students in Education who meet the general requirements of the Graduate School and the specific requirements of the respective departments in which graduate work is taken. Graduate students enrolled in any of the above departments and Psychology who wish to engage in more concentrated study in their major field of interest and to conduct research in this field may earn a research degree—Master of Science—in their respective department of specialization. The specific requirements for undergraduate and graduate degrees are included in the departmental write-ups on pages...

AGRICULTURAL EDUCATION — — — — —

Professor C. C. SCARBOROUGH, Head of the Department
Professor Emeritus LEON E. COOK
Professors L. O. ARMSTRONG, J. K. COGGIN, J. B. KIRKLAND
Associate Professors F. A. NYLUND, G. B. JAMES

OBJECTIVES — — — — —

The Department of Agricultural Education is responsible for supplying the public schools with an adequate number of competent teachers of vocational agriculture. Since most of his work as a teacher of vocational agriculture will be done with farm people, the student planning to teach should have lived on the farm. If he is not farm-reared, he will be expected to secure farm experience before he graduates. Enrollment in vocational agriculture in high school with a good supervised farming program contributes to his preparation for teaching vocational agriculture.

The Agricultural Education department provides professional training for students who plan to teach vocational agriculture in high schools. Some graduates, however, go into other work in agriculture, and others do graduate work in agricultural education.

OPPORTUNITIES — — — — —

There is a great need for teachers of vocational agriculture in North Carolina, with every indication that the demand will be greater in the future. At present, there are 486 white teachers of vocational agriculture in 99 counties in the state. The program is one of the largest in the United States.

GRADUATE STUDY — — — — —

The department provides opportunities for fully qualified students to do graduate work in Agricultural Education. Graduate students in this

field may qualify for either the Master of Science degree or for the degree of Master of Agricultural Education. Detailed information concerning these degrees may be secured from the Department of Agricultural Education or from the Dean of the Graduate School.

— — — — — CURRICULUM IN AGRICULTURAL EDUCATION

			Credits	
1	AG 101	Agriculture and World Affairs	3	0
	AGE 201	Farm Shop Woodwork	2	0
	AGE 202	Farm Shop Metalwork	0	2
	ED 101	Introduction to Agricultural Education	1	0
	ED 102	Objectives in Vocational Agriculture	0	1
	ENG 111, 112	Composition	3	3
	MA 111	Algebra and Trigonometry	4	0
	PO 201	Chicken and Turkey Production	0	4
	ZO 101	General Zoology	0	3
	MS 101, 102	Military Science I or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/> 16	<hr/> 16
2	AGE 211	Farm Power and Machinery I	0	3
	BO 101, 102	General Botany	3	3
	CH 101	General Inorganic Chemistry	4	0
	CH 203	General and Organic Chemistry	0	4
	EC 201	Economics	0	3
	ED 201	FFA in Vocational Agriculture	1	0
	REC 251	Social Recreation	0	3
	MS 201, 202	Military Science II or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		History Elective	3	0
		Agriculture Elective	5	0
			<hr/> 19	<hr/> 19
3	AGC 212	Economics of Agriculture	3	0
	AGC 303	Farm Management I	0	3
	ED 313	Organizing Programs of Agriculture	0	3
	ED 344	Secondary Education	0	2
	PY 211	General Physics	4	0
	PSY 304	Educational Psychology	3	0
	PSY 476	Psychology of Adolescence	0	2
	RS 301	Sociology of Rural Life	3	0
	SOI 200	Soils	4	0
		Agricultural Engineering Elective	0	3
		English Elective	0	3
		Free Electives	3	3
			<hr/> 20	<hr/> 19

EDUCATION

4	AGE 401	Farm Shop Organization and Management	3	0
	ED 411	Student Teaching in Agriculture	6	0
	ED 412	Teaching Adults	2	0
	ED 413	Teaching Materials	2	0
	ED 420	Principles of Guidance	0	2
	ED 430	Senior Seminar	0	1
	RS 321	Introduction to Social Research	2	0
		Biological Science Elective		3
		Agriculture Elective	0	6
		English Elective	0	3
		Political Science Elective	0	3
		Free Electives*	3	3
			<hr/> 18	<hr/> 21

Summer Practice (2 weeks) is required prior to senior year.

* Students taking advanced ROTC will take 18 hours fall semester; other students will get the 3-hour free elective some other semester.

INDUSTRIAL ARTS — — — — —

Professor IVAN HOSTETLER, *Head of the Department*

Associate Professor MARSHALL L. SCHMIDT

Assistant Professor ROBERT T. TROXLER

OBJECTIVES — — — — —

Industrial Arts comprises that area of education which concerns itself with materials, processes, and products of industry. It is concerned with a study of changes made in materials to make them more useful and with the problems related to these changes. The processes involved in changing these materials to useful products constitute the laboratory work in an Industrial Arts Program.

Students, therefore, should have an active interest in industrial materials, processes, products and problems in such areas as woods, metals, electricity, ceramics, graphic arts and plastics. They should enjoy working with hand and machine tools. A wide range of technical skills, practical experience and a knowledge of labor and labor problems is very important.

The Department of Industrial Arts at North Carolina State College performs two functions: First, it prepares teachers and supervisors of industrial arts for secondary schools, and, second, it provides practical training for students interested in technical jobs in industry, such as industrial work in production, personnel, sales, estimating, job training and safety.

OPPORTUNITIES — — — — —

The opportunities for employment as industrial arts teachers in North Carolina are greater than ever before. Less than one-fourth of the public schools have teachers of industrial arts. The demand for industrial employment is also very great.

GRADUATE STUDY — — — — —

Opportunities are provided for students fully qualified to do graduate work leading to the degree of Master of Industrial Arts Education or Master of Science in Industrial Arts Education. For additional information regarding graduate study, the Graduate School Catalog should be consulted.

CURRICULUM IN INDUSTRIAL ARTS

			Credits	
1	ENG 111, 112	Composition	3	3
	HI 252	The United States Since 1865	0	3
	IA 100	Introduction to Industrial Arts	1	0
	IA 103, 104	Industrial Arts Drawing	3	3
	IA 106	Laboratory of Industries	3	0
	IA 107	General Woodwork	0	3
	MA 111	Algebra and Trigonometry	4	0
	MA 122	Mathematics of Finance	0	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/>	<hr/>
			17	19
2	CH 101	General Inorganic Chemistry	4	0
	EC 201	Economics	0	3
	ENG 231	Basic Speaking Skills	3	0
	IA 108	General Woodwork	3	0
	IA 205	Industrial Arts Design	0	2
	IA 206, 207	General Metalwork	3	3
	PS 201	The American Governmental System	3	0
	PY 211	General Physics	0	4
	SOC 202	Man and Society	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			19	18
3	ED 308	Visual Aids	0	2
	ED 344	Secondary Education	2	0
	ED 345	Field Work in Secondary Education	0	2
	ED 422	Methods of Teaching Industrial Subjects	0	3
	IA 306	Graphic Arts	3	0
	IA 307	General Electricity	3	0
	IA 308	Industrial Arts Electronics	0	3
	IA 320	Tools and Materials	2	0
	PSY 304	Education Psychology	3	0
	PSY 476	Psychology of Adolescence	0	2
		English Elective	3	0
		Electives	3	6
			<hr/>	<hr/>
			19	18
4	FD 420	Principles of Guidance	0	2
	ED 444	Student Teaching in Industrial Subjects	6	0
	ED 482	Curriculum Problems in Industrial Arts	2	0
	ED 483	Instructional Aids and Devices	2	0
	ED 524	Occupational Information	0	2
	IA 460	General Shop	3	0
	IA 484	School Shop Planning and Equipment		
		Selection	0	3
		Electives	6	12
			<hr/>	<hr/>
			19	19

EDUCATION

CURRICULUM IN INDUSTRIAL ARTS—TECHNICAL OPTION — — —

Freshman and Sophomore Years Same as in Industrial Arts Education

			Credits	
3	EC 202	Economics	3	0
	IA 307	General Electricity	3	0
	IA 308	Industrial Arts Electronics	0	3
	IA 321	Metalwork Technology	0	2
	IE 310	Industrial Safety	2	0
	IE 332	Motion and Time Study	4	0
	PSY 200	Introduction to Psychology	3	0
	PSY 337	Industrial Psychology I	0	3
	SOC 301	Human Behavior	0	3
	Electives		3	6
		18	20	
4	EC 425	Industrial Management	3	0
	EC 426	Personnel Management	0	3
	EC 431	Labor Problems	2	0
	EC 432	Industrial Relations	2	0
	ED 524	Occupational Information	0	2
	IA 320	Tools and Materials	2	0
	IA 580	Modern Industries	0	2
	IE 408	Production Control	3	0
	IE 430	Job Evaluation and Wage Administration	0	3
	Electives		6	9
		18	19	

INDUSTRIAL EDUCATION — — — — —

OBJECTIVES — — — — —

The Department of Industrial Education is the only one in the state that prepares teachers of Industrial Education for the public schools. The main goal is to provide public schools with adequately trained personnel who can, in turn, help to develop a vitally needed reservoir of skilled workers and technical personnel to man established industries as well as prepare for new industries. The curriculum is planned to provide students with broad cultural and professional backgrounds to parallel occupational experience.

Candidates for a degree must have had at least two years of successful trade experience in the trade they wish to teach. The student who has not had this trade experience when he enters must fulfill the requirement before graduation either by working part of the school year or by completing the work experience after finishing the required resident courses.

OPPORTUNITIES — — — — —

The student who complete this curriculum will be prepared to teach in the all-day trade schools, area vocational schools, and the part-time, or evening vocational classes. Graduates have no difficulty in obtaining employment as Industrial Education teachers.

GRADUATE STUDY — — — — —

General and specialized professional courses are available to qualified students who wish to pursue graduate study as Industrial Education teachers, supervisors or coordinators of diversified occupatiins. The com-

pletion of the Master of Industrial Education or Master of Science degree in Industrial Education will also qualify one for a Graduate Certificate in North Carolina.

CURRICULUM IN INDUSTRIAL EDUCATION — — — — —

A minimum of 148 semester credits required for graduation

			Credits	
1	ED 100	Introduction to Industrial Education	2	0
	ENG 111, 112	Composition	3	3
	HI 252	The United States Since 1865	0	3
	IA 103, 104	Industrial Arts Drawing	3	3
	MA 111	Algebra and Trigonometry	4	0
	MA 122	Mathematics of Finance	0	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
		Electives*	2	3
			<hr/>	<hr/>
			17	19
2	CH 101	General Inorganic Chemistry	4	0
	EC 201	Economics	0	3
	ENG 231	Basic Speaking Skills	3	0
	PS 201	American Governmental System	3	0
	PY 211	General Physics	0	4
	SOC 202	Man and Society	3	0
	SOC 301	Human Behavior	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Electives*	3	6
			<hr/>	<hr/>
			19	19
3	EC 202	Economics	3	0
	EC 312	Accounting for Engineers	0	3
	ED 308	Visual Aids	0	2
	ED 344	Secondary Education	2	0
	ED 345	Field Work in Secondary Education	0	2
	ED 422	Methods of Teaching Industrial Subjects	0	3
	IE 310	Industrial Safety	2	0
	PSY 304	Educational Psychology	3	0
	PSY 476	Psychology of Adolescence	0	2
	REC 333	First Aid and Safety	2	0
		English Elective	0	3
		Electives	7	3
			<hr/>	<hr/>
			19	18

EDUCATION

4	ED 420	Principles of Guidance	0	2
	ED 440	Vocational Education	2	0
	ED 444	Student Teaching in Industrial Subjects	6	0
	ED 516	Community Occupational Surveys	0	2
	ED 483	Instructional Aids and Devices	2	0
	ED 524	Occupational Information	0	2
	ED 525	Trade Analysis and Course Construction	2	0
	ED 527	Philosophy of Industrial Education	0	2
	PSY 337	Industrial Psychology	0	3
		Electives*	6	8
			18	19

* Electives to be selected with aid of advisor to meet special needs of individual students.

INDUSTRIAL AND RURAL RECREATION — — — — —

Professor THOMAS I. HINES, *Head of Department*
Associate Professor LATHAM L. MILLER
Assistant Professors CHARLES C. STOTT, ALBERT CRAWFORD

OBJECTIVES — — — — —

The Department of Industrial and Rural Recreation provides training for students who plan to become recreation leaders in industry, municipalities, institutions and rural communities. The recreation profession recognizes the importance of leaders who possess the competence needed to plan and supervise effective recreation programs. Competent leadership is the major factor affecting the scope, intensity and success of a program of organized recreation. A curriculum in Park Administration is also offered for students who plan to engage in the administration of local, county or state parks.

All students pursue the same program for the first two years after which they declare an option (Industrial, Rural, Institutional or Park Administration) and take courses designed to meet the needs in their respective area of specialization.

OPPORTUNITIES — — — — —

The demand for properly trained recreation leadership has increased rapidly in recent years. The number of graduates has not been sufficient to meet the demand for recreation leaders.

CURRICULUM OF INDUSTRIAL AND RURAL RECREATION — — — — —

A minimum of 149 semester credits required for graduation.

1	ENG 111, 112	Composition	3	3
	HI 252	U. S. History Since 1865	3	0
	MA 111	Algebra and Trigonometry	4	0
	PS 201	American Governmental System	0	3
	REC 152	Introduction to Recreation	3	0
	REC 153	Aquatic Sports	0	2
	SOC 202	Man and Society	0	3
	ZO 101, 102	General Zoology	3	3
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122*	Air Science I	2	2
	PE 101, 102	Physical Education*	1	1
			19	17

OPTION IN INDUSTRIAL RECREATION

			Credits	
2	EC 201, 202	General Economics	3	3
	ENG 251	Basic Speaking Skills	3	0
	ENG 215	Principles of News and Article Writing	0	3
	RFC 201	Playground Leadership	2	0
	REC 251	Social Recreation I	3	0
	REC 252	Social Recreation II	0	3
	REC 253	Principles of Physical Education	3	0
	SOC 301	Human Behavior	0	3
	ZO 212	Human Anatomy	3	0
	ZO 213	Human Physiology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 121, 122*	Air Science II	2	2
	PE 201, 202	Physical Education*	1	1
			<hr/>	<hr/>
			20	18
3	EC 425	Industrial Management	3	0
	EC 426	Personnel Management	0	3
	ED 308	Visual Aids	2	0
	IA 314	Recreational Arts and Crafts	0	2
	MA 122	Mathematics of Finance		
	or	or		
	EC 312	Accounting for Engineers	0	4
	PSY 200	Introduction to Psychology	3	0
	PSY 302	Psychology of Personality and Adjustment	0	3
	REC 333	First Aid and Safety	2	0
	REC 351	Individual Sports in Recreation	3	0
	REC 352	Team Sports in Recreation	0	3
	REC 353	Camp Organization and Leadership	0	3
	REC 354	Personal and Community Hygiene	3	0
		Electives	3	3
			<hr/>	<hr/>
			19	21
4	EC 431	Labor Problems	2	0
	PSY 337	Industrial Psychology I	3	0
	REC 401	Principles and Practices of Industrial Recreation	2	0
	REC 451	Facilities and Equipment	3	0
	REC 452	Recreation Administration	0	3
	REC 470	Supervised Practice	0	6
	REC 471	Organizing The Recreation Program	0	2
	REC 472	Observation and Field Experience	0	2
	SOC 302	Public Relations and Modern Society	3	0
	SOC 501	Leadership	3	0
		Electives	3	3
			<hr/>	<hr/>
			19	16

EDUCATION

OPTION IN RURAL RECREATION — — — — —

			Credits	
2	EC 201, 202	General Economics	3	3
	ENG 231	Basic Speaking Skills	3	0
	ENG 215	Principles of News and Article Writing	0	3
	REC 201	Playground Leadership	2	0
	REC 251	Social Recreation I	3	0
	REC 252	Social Recreation II	0	3
	REC 253	Principles of Physical Education	3	0
	SOC 301	Human Behavior	0	3
	ZO 212	Human Anatomy	3	0
	ZO 213	Human Physiology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222*	Air Science II	2	2
	PE 201, 202	Physical Education*	1	1
			<hr/>	<hr/>
			20	18
3	ED 308	Visual Aids	2	0
	IA 314	Recreational Arts and Crafts	0	2
	MA 122	Mathematics of Finance		
	or	or		
	EC 312	Accounting for Engineers	0	4
	PS 202	County and Municipal Government	0	3
	PSY 304	Educational Psychology	3	0
	PSY 476	Psychology of Adolescence	0	2
	REC 333	First Aid and Safety	2	0
	REC 351	Individual Sports in Recreation	3	0
	REC 352	Team Sports in Recreation	0	3
	REC 353	Camp Organization and Leadership	0	3
	REC 354	Personal and Community Hygiene	3	0
	ZO 312	Principles of Game Management	3	0
		Electives	3	4
			<hr/>	<hr/>
			19	21
4	ED 420	Principles of Guidance	2	0
	REC 301	Organization and Administration of Physical Education	2	0
	REC 315	Prevention and Care of Athletic Injuries	2	0
	REC 325	Activities for the Handicapped Individual	2	0
	REC 451	Facilities and Equipment	3	0
	REC 452	Recreation Administration	0	3
	REC 470	Supervised Practice	0	6
	REC 471	Organizing the Recreation Program	0	2
	REC 472	Observation and Field Experience	0	2
	SOC 411	Community Relationships	3	0
		Electives	5	3
			<hr/>	<hr/>
			19	16

— — — — — OPTION IN INSTITUTIONAL RECREATION

			Credits	
2	EC 201, 202	General Economics	3	3
	ENG 231	Basic Speaking Skills	3	0
	ENG 215	Principles of News and Article Writing	0	3
	REC 201	Playground Leadership	2	0
	REC 251	Social Recreation I	3	0
	REC 252	Social Recreation II	0	3
	REC 253	Principles of Physical Education	3	0
	SOC 301	Human Behavior	0	3
	ZO 212	Human Anatomy	3	0
	ZO 213	Human Physiology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222*	Air Science II	2	2
3	PE 201, 202	Physical Education*	1	1
			<hr/>	<hr/>
			20	18
	ED 308	Visual Aids	2	0
	IA 314	Recreational Arts and Crafts	0	2
	MA 122	Mathematics of Finance		
	or	or		
	EC 312	Accounting for Engineers	0	4
	PSY 200	Introduction to Psychology	3	0
	PSY 302	Psychology of Personality and Adjustment	0	3
	REC 333	First Aid and Safety	2	0
	REC 351	Individual Sports in Recreation	3	0
	REC 352	Team Sports in Recreation	0	3
4	REC 353	Camp Organization and Leadership	0	3
	REC 354	Personal and Community Hygiene	3	0
	SOC 302	Public Relations and Modern Society	0	3
	SOC 304	Contemporary Family Life	3	0
		Electives	3	3
			<hr/>	<hr/>
			19	21
	PSY 530	Abnormal Psychology	3	0
	REC 301	Organization and Administration of Physical Education	2	0
	REC 325	Activities for the Handicapped Individual	2	0
	REC 451	Facilities and Equipment	3	0
	REC 452	Recreation Administration	0	3
	REC 470	Supervised Practice	0	6
	REC 471	Organizing the Recreation Program	0	2
	REC 472	Observation and Field Experience	0	2
	SOC 306	Delinquency and Crime	3	0
	SOC 412	Introduction to Social Work	3	0
		Electives	3	3
			<hr/>	<hr/>
			19	16

EDUCATION

OPTION IN PARK ADMINISTRATION — — — — —

			Credits	
2	BO 101, 102	General Botany	3	3
	EC 201, 202	General Economics	3	3
	ENG 231, 215	Basic Speaking Skills;		
		Principles of News and Article Writing	3	3
	PS 202	County and Municipal Government	0	3
	PSY 200	Introduction to Psychology	0	3
	REC 207	History and Principles of Park		
		Administration	2	0
	REC 251	Social Recreation I	3	0
	REC 333	First Aid and Safety	2	0
	ZO 252	Ornithology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222*	Air Science II	2	2
	PE 201, 202	Physical Education*	1	1
			<hr/>	<hr/>
			19	21
3	AGE 201, 202	Farm Shop Wood Work;		
		Farm Shop Metal Work	2	2
	BO 211, 203	Dendrology; Introduction to		
		Systematic Botany	2	3
	MA 122	Mathematics of Finance		
	or	or		
	EC 312	Accounting for Engineers	0	4
	MIG 120	Physical Geology	0	3
	LA 300	Appreciation of Park Design	3	0
	PSY 302	Psychology of Personality and Adjustment	3	0
	REC 351	Individual Sports in Recreation	3	0
	REC 352	Team Sports in Recreation	0	3
	ZO 321	Wildlife and Natural Resource Conservation	0	3
		Electives	3	3
			<hr/>	<hr/>
			16	21
4	AGE 341	Farm Electrification and Utilities	3	0
	BO 441	Plant Ecology	3	0
	EC 426	Personnel Management	0	3
	REC 353	Camp Organization and Leadership	3	0
	REC 354	Personal and Community Hygiene	3	0
	REC 411, 412	Park Maintenance and Operation	2	2
	REC 451	Facilities and Equipment	0	3
	REC 452	Recreation Administration	3	0
	REC 471	Organizing the Recreation Program	0	2
	ZO 522	Animal Ecology	0	3
		Electives	3	3
			<hr/>	<hr/>
			20	16

* Students excused from Military or Air Science and or Physical Education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, and Sociology
Field Work: Evidence of at least four months of satisfactory employment in the practice of his profession is required from each candidate for graduation. Such work may include six week's work in connection with the ROTC summer training program.

— — — — — MATHEMATICS AND SCIENCE EDUCATION

— — — — — OBJECTIVES

The Department of Mathematics and Science Education offers curricula for those students who wish to become teachers of Mathematics or Science. Each curriculum provides for a well rounded professional preparation. There is sufficient flexibility in each curriculum to enable the student to meet certification requirements in both subject matter areas by proper selection of elective courses. This flexibility also enables the student to specialize in one subject matter area thus opening up job opportunities in related fields requiring a substantial background in Mathematics and Science such as, research teams in industry, government research projects involving rockets, guided missiles, computers or pure research.

— — — — — OPPORTUNITIES

The acute shortage of Mathematics and Science teachers in the secondary schools provides excellent employment opportunities for more graduates in this department. Attractive job opportunities are also available for industrial employment. The rapid technological and scientific developments during the past few years has accentuated the importance of mathematics and science. Future developments will depend upon the accomplishments of persons who have received adequate training in these areas.

— — — — — CURRICULUM IN MATHEMATICS EDUCATION

A minimum of 144 credits required for graduation

			Credits	
1	CH 101	General Inorganic Chemistry	4	0
	CH 103	General and Qualitative Chemistry	0	4
	ENG 111, 112	Composition	3	3
	HI 252	The United States since 1865	3	0
	MA 101, 102	First Year Mathematics for Engineers	5	4
	PS 201	The American Governmental System	0	3
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science	2	2
	PE 101, 102	Physical Education	1	1
			<hr/>	<hr/>
			18	17
2	ED 203	Introduction to Teaching	2	0
	IA 203	Industrial Arts Drawing	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 211, 212	General Physics	4	4
	SOC 202	Man and Society	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Electives	3	5
			<hr/>	<hr/>
			19	19

EDUCATION

			Credits	
3	CE 201	Surveying or		
	PY 223	Astronomy	0	3
	EC 201, 202	Economics	3	3
	ED 308	Visual Aids	0	2
	ED 344	Secondary Education	0	2
	MA 122	Mathematics of Finance	4	0
	PSY 304	Educational Psychology	3	0
		English Electives*	3	3
			5	6
			<hr/>	<hr/>
			18	19
4	ED 420	Principles of Guidance	0	2
	ED 470	Methods of Teaching Mathematics	3	0
	ED 471	Student Teaching in Mathematics**	10	0
	MA 533	History of Mathematics	0	3
	PSY 476	Psychology of Adolescence	2	0
		Electives*	3	11
			<hr/>	<hr/>
			18	16

* A minimum of 6 semester hour electives in mathematics and 4 semester hours in mathematics and science. All electives must be selected with approval of adviser.

** During the fall semester of the Senior year 12 weeks will be devoted to full-time off-campus work at an approved Student Teaching Center and approximately 6 weeks to concentrated courses.

CURRICULUM IN SCIENCE EDUCATION

A minimum of 144 credits required for graduation

1	BO 101, 102	General Botany	3	3
	ENG 111, 112	Composition	3	3
	HI 252	The United States since 1865	3	0
	MA 111	Algebra and Trigonometry	4	0
	MA 112	Analytic Geometry and Calculus A	0	4
	MIG 120	Mineral Industries Geology	0	3
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/>	<hr/>
			16	16
2	CH 101	General Inorganic Chemistry	4	0
	CH 103	General and Qualitative Chemistry	0	1
	ED 203	Introduction to Teaching	2	0
	PS 201	The American Governmental System	3	0
	SOC 202	Man and Society	0	3
	ZO 101, 102	General Zoology	3	3
	ZO 213	Human Physiology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Electives*	4	3
			<hr/>	<hr/>
			19	19

EDUCATION

			Credits	
3	CH 203	General and Organic Chemistry	4	0
	EC 201, 202	Economics	3	3
	ED 308	Visual Aids	0	2
	ED 344	Secondary Education	2	0
	ENT 312	Economic Entomology	0	3
	PSY 304	Educational Psychology	0	3
	PY 211, 212	General Physics	1	1
			Electives*	3
				19
4	BO 412	General Bacteriology	0	4
	ED 420	Principles of Guidance	0	2
	ED 475	Methods of Teaching Science	3	0
	ED 476	Student Teaching in Science**	10	0
	PSY 476	Psychology of Adolescence	2	0
		English Elective	0	3
		Electives *	3	9
				18

* All electives to be selected with approval of adviser.

** During the fall term of the Senior year, 12 weeks will be devoted to full-time off-campus work at an approved Student Teaching Center and approximately 6 weeks to concentrated courses on the campus.

— — — OCCUPATIONAL INFORMATION AND GUIDANCE

Professor ROY N. ANDERSON, *Head of the Department*
Assistant Professor ELIAS L. TOLBERT

— — — — — OBJECTIVES

Special facilities are provided in the School of Education for mature students and individuals who have had teaching or personnel experience and who hold a Bachelor's degree to enroll for courses leading to a Master's degree in Occupational Information and Guidance, or a Master of Science degree. The offerings of the Department of Occupational Information and Guidance permit graduate students in subject-matter fields to select appropriate courses which will enable them to provide guidance and counseling for their students as well as exert influence in promoting a school-wide guidance program.

A special program in rehabilitation counseling has been made possible by a Grant from the Office of Vocational Rehabilitation of the Department of Health, Education, and Welfare.

In addition to the graduate program, the Department provides instruction in guidance for undergraduate students in the School of Education.

— — — — — OPPORTUNITIES

Graduate work in Occupational Information and Guidance gives preparation for such positions as counselor in secondary schools, colleges, or community agencies; school guidance directors; employment counselor; placement worker; business or industrial personnel worker; and for personnel work in the State or Federal Government. Administrators, supervisors, directors of instruction, and others who wish to prepare themselves for positions of leadership in guidance work may also profit from this program.

EDUCATION

The Federal-State Rehabilitation program is expanding and there is a definite demand for rehabilitation counselors today. This demand is expected to increase in the near future.

GRADUATE STUDY — — — — —

The Master's program includes a core of Guidance courses as follows: Ed. 524, Occupational Information; Ed. 631, Education and Vocational Guidance; Ed. 633, Techniques in Guidance and Personnel; Ed. 641, Field Work; and Ed. 651, Research. Opportunity for field work is available in secondary schools, colleges, clinics, employment offices, and other agencies, according to the student's interest. Special courses are provided for rehabilitation counselors. Courses in Psychology, Sociology, Economics, and Education are selected to round out the program. For those interested in public school guidance work, the program also meets the requirements for the Counselors Certificate issued by the State Department of Public Instruction, as well as similar certificates in many other states.

PSYCHOLOGY — — — — —

HOWARD G. MILLER, *Head of the Department*

Professor KEY L. BARKLEY, *Acting Head of the Department*

Visiting Professor WILLIAM MCGEEHEE

Associate Professors HAROLD M. CORTER, J. CLYDE JOHNSON

Assistant Professors CHARLES R. KELLY, MICHAEL CAFFEY, PAUL J. RUST

Part-time Instructor MARJORIE DAVIDSON

Understanding himself, his neighbor, his co-worker, and members of his family has become a requirement of modern education for man. The emphasis upon the study of man is becoming stronger year by year as we gain further understanding of the importance of human factors in the successful placement of workers, in the maintenance of morale, in promoting safety in industry, in achieving efficiency in school work, and in making a healthy, happy and effective adjustment to the everyday world.

OBJECTIVES — — — — —

In general, the courses in Psychology are designed to promote a broad understanding of man in relation to his environment or to cultivate the skills which may be useful in dealing with human beings in social, educational, industrial, or other practical situations.

The Department of Psychology, because of its intimate connection with teacher education programs, is located in the School of Education. The Department, however, offers courses of interest to students in all the professional schools.

The primary objectives of the Department are: to provide students with a broad and general understanding of human development, behavior and adjustment; to provide students in the various technical departments with the specialized instruction which will be of practical value to them; to give instruction in the areas of child development, motivation, learning, social development and efficiency of study to students who are preparing to be teachers; to provide comprehensive training in industrial psychology and allied areas to students at the graduate level.

The Department has certain facilities and arrangements for conducting its work which aid in the achievement of the stated objectives.

The Department of Psychology operates a Psychological Clinic which provides individual testing and counseling services to students. Special problems in academic, personal, social, and vocational areas are handled. This service is closely integrated with the College counseling program. Tests of intelligence, aptitudes, personality, interests, and educational achievement are administered for individual diagnosis. Through the remedial reading division of the clinic, diagnostic and remedial help are provided students having reading difficulties.

In order to provide psychological services to industry, the Department recently established a Bureau which is equipped to conduct personnel evaluations, employee counseling, personnel training, aptitude testing, attitude surveys, personnel research, and other psychological services.

In addition to the regular College budget, the Department has a psychology research budget which incorporates contract research studies sponsored by industrial firms, private organizations, and government agencies.

An applied Experimental Psychology Laboratory has been established in the Department. Emphasis is placed upon the design of experiments to study practical human problems. The design of machines to fit the human operator and the planning of work tasks in accordance with human capacities and limitations are major areas of concern in the Laboratory.

OPPORTUNITIES

The Department does not offer an undergraduate degree in psychology, but a student may elect courses to the extent time is allowed by his regular curriculum. The Department does give a Master of Science Degree in Industrial Psychology.

Upon completion of the Master's Degree in Industrial Psychology, a student may find employment in business or industry as a member of the personnel department, or become the officer in charge of training or safety. Some students find opportunities to become members of a research team in government or private agencies. Opportunities are available also in teaching and research activities in colleges and universities.

GRADUATE STUDY

The emphasis in graduate study in the Department is upon Industrial Psychology. A required basic set of courses is provided for all students who wish to work toward a Master's Degree in Industrial Psychology. Supporting courses are offered in sufficient number for students to have some latitude in their emphasis on minor lines of study. The graduate courses in the Department are also available to graduate students majoring in Agricultural Education, Guidance, Industrial Arts, Industrial Education, Mathematics and Science Education, Textiles, Industrial Engineering, Rural Sociology, and Statistics.

For general regulations regarding graduate study, the Graduate School Catalog should be consulted.

SCHOOL OF ENGINEERING

JOHN HAROLD LAMPE, DEAN

W. E. ADAMS, DIRECTOR OF INSTRUCTION

ARTHUR CLAYTON MENIUS, JR., ASSISTANT TO THE DEAN

INTRODUCTORY— — — — —

The impact of science and technology on civilization imposes upon all of us, and upon the engineer in particular, a new sense of responsibility. The scientist cannot guarantee that his contributions will always be used for noble purposes: he cannot answer for the misuse of scientific discoveries by dictators who would enslave the human race. But he can supply the knowledge and tools for building a better world and the defenses for its preservation. To be an engineer thus carries with it the responsibility and the obligation to use all newly discovered knowledge for the benefit of mankind. Discovery leads to discovery; knowledge opens the way to more knowledge, making possible further enlightenment and a new age of plenty.

Engineering studies are of the utmost interest and importance to those young men and women who look to industry, engineering, or research for a career. These ambitions can well be furthered by the School of Engineering through its undergraduate or graduate programs, whereby students are offered technical instruction and leadership guidance by an experienced staff of qualified engineers and educators.

The School of Engineering is organized into ten engineering departments: Chemical, Civil, Electrical, Industrial, Mechanical, Physics, Mathematics, Mineral Industries, Mechanics and Research. Undergraduate degree programs are offered in the first eight named departments, and all the teaching departments offer advanced studies leading to a Professional Degree or to the Master's degree. The Doctor of Philosophy program is offered in the Ceramic, Chemical, Electrical, and Physics Departments.

It is the policy of the School of Engineering to have all its curricula more than meet the standards of the Engineers' Council for Professional Development. It is the ambition of the School that its curricula and programs meet the needs of the people and industries of the state and region through effective instruction, competent research and development, and worthwhile scientific contributions to engineering knowledge.

CURRICULA — — — — —

The curricula representing the study program in all of the departments are so arranged that the freshman year is common to all. They contain broadening courses in the humanities while emphasizing the basic and fundamental engineering principles so essential to an engineering college program. Graduates of this program will not only be prepared for engineering responsibilities and positions of trust in industry, but will also have an appreciation and consciousness of human problems in community and industrial life. Though an entering student is asked to designate a field of interest, he can with ease and without any interruption change to some other field of study within the School of Engineering at the end of the freshman year.

FOUR-YEAR BACHELOR'S CURRICULA AND PROFESSIONAL (FIFTH YEAR) STUDY

The four-year program provides education and training to meet the needs of from eighty to eighty-five per cent of the young men of North Carolina who will take their places in industry and industrial life in the fields of production, sales, application, planning, and the operation of small industrial units.

The fifth-year specialized training leads to a professional degree (CE, CHE, ME, EE, etc.) in ceramic, chemical, civil, electrical, geological, industrial, and mechanical engineering. The courses of study are especially designed to meet the needs of students desiring intensive specialization in a particular field or additional course work not ordinarily covered in the normal four-year undergraduate curricula.

GRADUATE STUDY

The graduate activities are patterned to provide advanced training and experience to young men who have successfully completed a four-year program and who have an interest and ability to continue their education. This elective program will train graduates for positions and activities in teaching, technical design, and research. The Engineering School offers two programs of graduate study. The first represents a year of full-time study and thesis work and leads to a degree of Master of Science in some field of engineering. The second program leads to a Doctor's degree in some field of engineering and usually requires three years of full-time study, thesis work, and experimental activity.

RESEARCH

Research activities in the School of Engineering are based on a program correlated with graduate study in engineering. It is the purpose of this program not only to train future research workers, but also to carry out a program that assures both sound investigations of a fundamental nature in engineering sciences and work devoted to greater uses of the State's natural resources. Through publication, cooperative activity with industry and the operation of our own investigational projects, it is intended that the engineering research activities will be a part of and work effectively with the industrial development of North Carolina.

DEGREES**BACHELOR OF ENGINEERING**

The four-year curricula offer programs of study leading to a Bachelor's degree in Agricultural, Ceramic, Chemical, Civil, Engineering Mathematics and Engineering Physics, Geological, Industrial, Mechanical, and Nuclear Engineering. Aeronautical Engineering is an option in Mechanical Engineering, and Construction Engineering is an option in Civil Engineering. Graduation requirements are the satisfactory completion of all the required courses in any one curriculum and other courses which amount to a minimum of 150 semester credit hours. A minimum scholastic record of a C average is also required. A minimum of six weeks' summer employment is required in all curricula.

BACHELOR OF SCIENCE IN A SPECIALIZED BRANCH OF ENGINEERING

This is an earned undergraduate degree and is available through programs of study in Furniture Manufacture and Management and in Heating and Air Conditioning. The course is planned for four years of study. Graduation requirements are the satisfactory completion of all the

ENGINEERING

required courses in any one curriculum and other courses which amount to a minimum total of 150 semester credit hours. A minimum scholastic record of C average is also required. Other requirements are the satisfactory completion of a week's inspection trip in the senior year and a minimum of six weeks' summer employment.

PROFESSIONAL DEGREE IN A SPECIALIZED BRANCH OF ENGINEERING

This is an earned degree which can be obtained only after the Bachelor's degree. The fifth-year curricula are especially designed to meet the needs of students desiring intensive specialization in a particular field or additional course work not ordinarily covered in the normal four-year undergraduate curricula. This professional program of study is offered in Ceramic, Chemical, Civil, Electrical, Geological, Industrial and Mechanical Engineering. Regulations covering this degree are shown on pages 128-129.

For further information concerning the requirements for the professional degree, applications for admission, etc., address Dr. J. H. Lampe, Dean of Engineering, North Carolina State College, Raleigh, North Carolina.

MASTER OF SCIENCE (M.S.) IN A SPECIALIZED BRANCH OF ENGINEERING

This is an earned graduate degree which can be obtained only after the Bachelor's degree. It requires at least one year of graduate work, a reading knowledge of at least one foreign language, and a thesis showing ability to pursue independent research. The core of graduate courses taken must emphasize a scientific objective. Further information concerning the requirements for this degree may be obtained by addressing Dr. D. B. Anderson, Director of Graduate Studies, State College, Raleigh, North Carolina.

DOCTOR OF PHILOSOPHY DEGREE (Ph.D.)

This is an earned graduate degree offered in Ceramic, Chemical, Electrical, and Nuclear Engineering, and Engineering Physics. Admission requirements are the same as for the master's degree. It requires at least two years of graduate work with a major in Ceramic, Chemical, or Electrical Engineering and a minor either in some field of engineering or in an allied science. The dissertation will also deal with some problem in the field of the student's major interest. Inquiries about this program should be addressed to Dr. D. B. Anderson, Director of Graduate Studies, State College, Raleigh, North Carolina.

THE HONORARY DEGREE OF DOCTOR OF ENGINEERING (D.Eng.)

This degree is purely an honorary degree conferred upon men of extraordinarily high professional engineering attainments who are graduates of one of the branches of the University of North Carolina, or upon professional engineers who have rendered distinguished services to the State of North Carolina.

NON-SCHOLASTIC REQUIREMENTS — — — — —

SUMMER WORK: INDUSTRIAL EMPLOYMENT

A minimum of six continuous weeks of gainful employment is a specific requirement for graduation in Engineering. This employment may be as laborer, sub-professional, or professional assistant in any of the following fields: (1) industrial manufacture, repair service, or sales; (2) industrial engineering or scientific research; (3) engineering or architectural design, and drafting; (4) engineering exploration, surveying, or reconnaissance; (5) construction of buildings, roads, railroads, dams, and other engineering works.

Students are required to consult with their department heads as to the type of work that will be acceptable before making arrangements for industrial employment. It is desirable that this employment be in the student's scholastic major. The required industrial employment should be completed during the summer vacation period, which may be the one between the sophomore and junior years or the one between the junior and senior years, preferably the latter. Students enrolled for advanced military training should complete the industrial employment requirement between the sophomore and junior years to avoid conflict with ROTC Summer Camp.

The student is responsible for obtaining his employment and supplying satisfactory evidence thereof to the head of his department. This evidence will consist of a letter from the employer to the head of the student's department setting forth (1) inclusive dates of employment; (2) character of work performed; (3) type of operation of firm or individual; (4) an evaluation of the student's work. This letter must be submitted to the department head not later than the end of the Fall semester of the year in which the student intends to graduate.

— — — — — SHORT COURSES AND INSTITUTES

The School of Engineering cooperates with the College Extension Division in offering short courses and institutes both on the campus and at various centers throughout the State for adults and graduate engineers. Such courses vary in length from one day to twelve weeks; each year the courses offered are different and vary according to the public demand. The faculty of the School of Engineering usually furnish a large portion of the instruction offered in these courses, which in the past have been for Electrical Metermen, Gas Plant Operators, Safety Engineers, Radio Engineers, Refrigeration and Air Conditioning Engineers, Waterworks Operators, Heating and Plumbing Contractors, and Surveyors. Classes are usually held in Raleigh where the School of Engineering has an excellent staff and adequate laboratories and classroom facilities available.

These short courses offer real opportunity to practicing engineering personnel to follow a refresher program in their field of interest, as well as to become acquainted with the latest and most modern engineering procedures and equipment.

Another educational services activity is that being carried out at the Gaston Technical Institute, Gastonia, North Carolina, where a one-year post-high school terminal technician program is sponsored by the School of Engineering and operated by the Extension Division of the College. A separate full-time staff is employed for this educational program which provides an integrated curriculum in English, mathematics, engineering drawing, machine shop, welding, electrical maintenance, and economics. Graduates of this program are trained for industry with the opportunity for rapid acceleration towards positions of foremen, maintenance supervisors, etc.

— — — — — CURRICULA OFFERED IN THE SCHOOL OF ENGINEERING

Each of the following curricula is not only well-balanced, but offers a liberal course of study in a technical and professional field. Each conforms to what is regarded by engineering educators as the best modern practice.

FOR ALL ENGINEERING CURRICULA

			Credits	
1	CH 101, 103	General Inorganic Chemistry and Qualitative Analysis	4	4
	ENG 111, 112	Composition	3	3
	E 100	Introduction to Engineering	1	0

ENGINEERING

HI 205	The Modern Western World	0	3
MA 101, 102	First Year Mathematics for Engineers	5	4
ME 101, 102	Engineering Graphics	2	2
MS 101, 102	Military Science or		
or			
AS 121, 122	Air Science	2	2
PE 101, 102	Physical Education*	1	1
		<hr/>	<hr/>
		18	19

* Students excused from Military Science or Air Science and/or Physical Education will schedule equivalent credits in courses outside their department.
The sophomore, junior and senior programs of study in the various fields of Engineering are shown under the department headings on the pages that follow.

HUMANITIES—SOCIAL STUDIES PROGRAM FOR ENGINEERING STUDENTS

A specially designed sequence of courses comprising twenty-one (21) credit hours is required of all engineering students and is incorporated in each curriculum. Its primary objective is to broaden the student in the humanities and social sciences and to instill good habits in the use of the English language. Following a broad yet basic consideration of history, economics and literature, the student progresses to an advanced and integrated study of contemporary civilization and of contemporary problems. The work of the last semester may be chosen from a group of approved electives which are built upon and closely related to the subject matter of the previous three years.

FRESHMAN YEAR

		Credits	
HI 205	The Modern World or		
EC 205	The Economic Process	0	3

SOPHOMORE YEAR

HI 205	The Modern World and		
ENG 205*	Reading for Discovery	3	3
	or		
EC 205	The Economic Process and		

JUNIOR YEAR

ENG 205	Reading for Discovery	3	3
SS 301, 302	Contemporary Civilization	3	3

SENIOR YEAR

SS 491	Contemporary Issues I and Approved Elective (see list below)	0	3
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SENIOR ELECTIVES FOR HUMANITIES—SOCIAL STUDIES PROGRAM

SS 492	Contemporary Issues II	3	
HI 412	Recent United States History	3	
ENG 366	The American Mind	3	
PS 401	American Parties and Pressure Groups	3	
SOC 401	Human Relations in Industrial Society	3	
PHI 395	Philosophical Analysis	3	
EC 442	Evolution of Economic Ideas	3	

* History, Economics, and Literature may be scheduled in any order except that ENG 111, 112, Composition, are prerequisite for ENG 205. Only one course can be scheduled without special permission.
Courses from the approved list of senior electives will not be credited to the humanities sequence unless preceded by all other required humanities courses.

— — — — — AGRICULTURAL ENGINEERING

A curriculum for work leading to the Bachelor's degree in Agricultural Engineering is the joint responsibility of the School of Agriculture and the School of Engineering. Each of the schools gives approximately one-half the course work.

For further details concerning the field, see page 42.

— — — — — CHEMICAL ENGINEERING

Professor E. M. SCHOENBORN, Head of the Department

Professors K. O. BEATTY, JR., F. P. PIKE

Associate Professors R. BRIGHT, J. F. SEELY

Assistant Professors J. K. FERRELL, R. A. MCALLISTER

Instructors C. A. PLANK, R. ROZETT

— — — — — OBJECTIVES

Chemical Engineering is concerned with the development and application of manufacturing and allied processes in which chemical or certain physical changes of material are involved. It involves the application of mathematics, chemistry, physics, and fundamental engineering principles to the design, construction, operation, control, and improvement of equipment for carrying out chemical processes on an industrial scale at the lowest possible cost. Most of the so-called process industries—the production of chemicals, plastics, rubber, paints, synthetic fibers, petroleum, paper, explosives, drugs, food, soap, magnesium, aluminum, glass, cement, and numerous others—are inherently chemical engineering in nature. To prepare men for careers in industries of these kinds is the purpose of the course in Chemical Engineering.

— — — — — CURRICULUM

The work of the chemical engineer is so extensive and diversified in scope that his training must be along broad and basic lines rather than in any one field of specialization. Furthermore, the spirit of research and experimentation is vital to the chemical industry so that the development not only of a sound technical background but also of a capacity for original thought and independent accomplishment is an essential part of his program. The undergraduate curriculum emphasizes the engineering, the chemical, and the economic principles involved in chemical processes and operations. The work in chemistry including inorganic, analytical, physical, and organic chemistry is comparable to that usually given to chemists in the first three years with the exception of a reduction of time devoted to laboratory work. The subjects in mechanical and electrical engineering, in mechanics and metallurgy are designed to supply the fundamentals of these branches. The work in the Chemical Engineering subjects, although distinctly professional in application, is nevertheless basic in character. Since it depends upon a thorough background in the sciences, it is postponed until the third and fourth years. It is designed to develop initiative, sound habits of thought, and intellectual curiosity in the student.

— — — — — FACILITIES

The Chemical Engineering Laboratories are provided with pilot plant-type equipment for studying the principles of fluid flow, heat transfer, distillation, absorption, drying, crushing and grinding, filtration, agitation, etc. Much new equipment has been installed, and new and special

ENGINEERING

apparatus is added from time to time to keep the facilities abreast of recent developments in the field. Special equipment for research and instructional purposes is designed and built in the departmental laboratories. In this way students are given first hand acquaintance with problems relating to the actual design, construction, and operation of typical equipment used in industry.

OPPORTUNITIES — — — — —

Opportunities for employment in the chemical and allied industries upon graduation are numerous and varied. Graduates find employment in such fields as: research and development; production, operation, and maintenance; management and administration; inspection, testing, and process control; technical service and sales; estimation and specification writing; consulting and teaching, and many others. Students desiring to pursue careers in research and development or in teaching and consulting work are strongly advised to consider graduate training. In fact, the need for persons who have had advanced training in the field beyond the regular four-year program is continually increasing.

CURRICULUM IN CHEMICAL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	CH 215	Quantative Analysis	4	0
	CHE 205	Chemical Process Principles I	0	4
	EC 205	The Economic Process	0	3
	ENG 205	Reading for Discovery	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			19	19
3	CH 425, 426	Organic Chemistry	3	3
	CH 531, 532	Physical Chemistry	3	3
	CHE 311	Chemical Process Principles II	4	0
	CHE 411	Unit Operations I	0	3
	EM 341, 342	Engineering Mechanics A, B	2	2
	EM 343	Strength of Materials A	0	2
	SS 301, 302	Contemporary Civilization	3	3
		Electives	3	3
			18	19
4	CHE 412	Unit Operations II	4	0
	CHE 415	Chemical Engineering Thermodynamics	4	0
	CHE 431, 432	Unit Operations Lab I, II	3	3
	CHE 460	Seminar	1	0
	CHE 470	Chemical Engineering Projects	2	0
	CHE 527	Chemical Process Engineering	0	3
	EE 320	Elements of Electrical Engineering	0	4
	MIM 321	Metallurgy	0	3
	SS 491	Contemporary Issues I and		
		Electives in Humanities	3	3
			3	3
			20	19

— — — PROFESSIONAL CURRICULUM IN CHEMICAL ENGINEERING

Typical Program

		Credits	
CH 401	Special Topics in Inorganic Chemistry	3	0
CHE 525	Process Measurements and Control	0	3
CHE 546	Chemical Reaction Rates	0	3
CHE 570	Chemical Engineering Projects	2	2
CHE 610, 613	Heat Transfer I, Distillation	3	3
CHE 660	Chemical Engineering Seminar	1	1
PY 407	Introduction to Modern Physics	3	0
	Electives	3	3
		15	15

— — — — — GRADUATE STUDY IN CHEMICAL ENGINEERING

Regulations Governing the Professional Program are Shown on Pages 132-133.

Graduate work is offered in Chemical Engineering leading to the degrees of Master of Science and Doctor of Philosophy in Chemical Engineering. Superior students who can do so are strongly encouraged to spend one or more years in advanced study and research since the demand of the chemical industry for persons with training beyond the baccalaureate is continually increasing.

The Chemical Engineering staff and research facilities provide unusual opportunities for basic and applied work in such important fields as fluid flow, heat transfer, distillation, diffusional operations, plastic technology, etc. Of current interest are special programs in thermal properties of materials at both high and low temperatures, in process measurement and control, and in the use of radioactive tracers in chemical engineering research.

For general regulations, the Graduate School Catalog should be consulted.

— — — — — CIVIL ENGINEERING

Professor R. E. FADUM, Head of the Department

Professor Emeritus C. L. MANN

Professors W. F. BABCOCK, C. R. BRAMER, CARROLL L. MANN, JR.

Associate Professors C. R. McCULLOUGH, N. L. NEMEROW, C. SMALLWOOD, M. E. UYANIK

Assistant Professors A. G. FARKAS, C. M. LAMBE

Instructors M. R. DAMRON, JR., C. P. FISHER, JR., C. H. KAHN, L. F. SPAINE, H. B. WYNDHAM, JR.

Teaching Assistants L. S. AGNEW, JR., J. C. SMITH

Research Assistants J. C. COSS, E. J. SALMON, E. J. STRUZESKI, JR.

— — — — — CURRICULA

The Department of Civil Engineering offers two four-year undergraduate curricula: the one, leading to the degree of Bachelor of Civil Engineering; the other, to the degree Bachelor of Civil Engineering Construction Option. A fifth-year professional program leading to the degree Civil Engineer and a graduate program leading to the degree Master of Science in Civil Engineering are also offered by the Department.

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The Civil Engineering curriculum has been accredited by the Engineers' Council for Professional Development. It is a well-balanced program of study providing academic discipline in the fundamental physical sciences, the humanities and social sciences and in the professional fields of civil engineering including structural, transportation, and sanitary engineering.

FACILITIES

The Department of Civil Engineering is located in the Civil Engineering Building. This building provides offices, drafting rooms, and classrooms as well as laboratory facilities for testing structural materials, soils, and bituminous products; for hydraulic experiments; for studies in airphoto interpretation and photogrammetry; for analysis of structural models; for chemical and biological tests pertaining to sanitary engineers; and for the investigation of transportation problems. In addition, the facilities of the Civil Engineering Building include a comfortable student study room, an auditorium, and a departmental library. All of these facilities have been designed to provide for effective teaching and laboratory instruction and to create a scholarly environment.

OPPORTUNITIES

Civil Engineering is one of the broadest of the various fields of engineering. It deals with the planning, design, and construction of buildings, bridges, dams, harbor works, water works, water power facilities, sewage disposal works, and transportation facilities including highways, railways, waterways, airports, and pipe lines. The civil engineer's services are in demand by public agencies as well as by private enterprise. The activities of the civil engineer are such that opportunities are available for office-type as well as field-type employment and for employment in small communities as well as in large industrial centers. The breadth in scope of civil engineering and the variety of types of employment open to the civil engineer are such that a student who does not have a strong predilection for some special branch of engineering may be safely advised to study civil engineering.

CURRICULUM IN CIVIL ENGINEERING

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

		Credits	
CE 201, 202	Surveying I, II	3	3
EM 311	Engineering Mechanics I	0	3
MA 201, 202	Calculus I, II	4	4
PY 201, 202	General Physics	5	5
	Humanities	3	3
MS 201, 202	Military Science II		
or	or		
AS 221, 222	Air Science II	2	2
PE 201, 202	Physical Education	1	1
		18	21
CE 305, 306	Transportation Engineering I, II	3	3
CE 321, 322	Materials Testing Laboratory I, II	2	2
CE 324	Analysis of Structures I	0	3
CE 344	Soil Mechanics	0	3
CE 382	Hydraulics	0	3
EM 312	Engineering Mechanics II	3	0
EM 321	Strength of Materials I	3	0
MIG 120	Physical Geology	3	0
SS 301, 302	Contemporary Civilization	3	3
	Air or Military Science or		
	Electives	3	3
		20	20

			Credits	
4	CE 425	Analysis of Structures II	3	0
	CE 427, 428	Structural Design I, II	4	3
	CE 481	Hydrology and Drainage	2	0
	CE 482	Water and Sewage Works	0	3
	CE 492, 493	Professional Practice I, II	1	1
	EE 320	Elements of Electrical Engineering	0	4
	ME 301	Engineering Thermodynamics I	3	0
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Air or Military Science or		
		Electives	3	3
			19	17

— — — — — **CONSTRUCTION OPTION**

Professor CARROLL L. MANN, JR., In Charge

The curriculum in Civil Engineering Construction Option is a new curriculum being offered for the first time in September, 1954. It is designed to suit the needs of students who are especially interested in the construction phases of civil engineering. It includes the core course requirements in the physical sciences and the social sciences and humanities as established for all engineering curricula offered at North Carolina State College. It differs from the Civil Engineering curriculum in that special emphasis is given to the construction aspects of civil engineering. To this end the curriculum includes a four-semester sequence of courses in estimates and costs and construction planning and organization. The courses unique to this curriculum are designed to provide academic discipline in the engineering, planning, and management aspects of construction.

— — — — — **CURRICULUM IN THE CONSTRUCTION OPTION**

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	CE 211, 212	Construction Surveying I, II	3	3
	EM 341	Engineering Mechanics A	0	2
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
		Humanities	3	3
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			18	20
3	CE 321, 322	Materials Testing Laboratory I, II	2	2
	CE 334	Elements of Structural Analysis	0	3
	CE 361, 362	Estimates and Costs I, II	3	3
	EC 312	Accounting for Engineers	0	3
	EE 320	Elements of Electrical Engineering	4	0
	EM 342	Engineering Mechanics B	2	0
	EM 343	Strength of Materials A	2	0
	ME 301	Engineering Thermodynamics I	0	3
	SS 391, 302	Contemporary Civilization	3	3
		Air or Military Science or		
		Electives	3	3
			19	20

ENGINEERING

			Credits	
4	CE 433, 434	Elements of Structural Design I, II	3	3
	CE 443	Foundations	0	3
	CE 461, 462	Project Planning and Control I, II	3	3
	CE 464	Legal Aspects of Contracting	0	3
	CE 485	Elements of Hydraulics and Hydrology	3	0
	CE 492, 493	Professional Practice I, II	1	1
	IE 301	Engineering Economy	2	0
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Air or Military Science or		
			Electives	
			3	3
			<hr/>	<hr/>
			18	19

CONSTRUCTION — — — — —

The Construction curriculum, leading to the degree of Bachelor of Science in Construction, is being replaced by the curriculum leading to the degree of Bachelor of Civil Engineering Construction Option. The Construction curriculum will, however, be continued until those students enrolled on or before September, 1953, have completed the requirements for the degree.

CURRICULUM IN CONSTRUCTION — — — — —

To be terminated June, 1957.

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
3	CE 321, 322	Materials Testing Laboratory I, II	2	2
	CE 334	Elements of Structural Analysis	0	3
	CE 357, 358	Estimates and Costs A, B	3	3
	CE 485	Elements of Hydraulics and Hydrology	0	3
	EC 401, 402	Principles of Accounting	3	3
	EE 341	Industrial Electricity	4	0
	EM 343	Strength of Materials A	2	0
		Humanities	3	3
		Air or Military Science or		
		Electives	3	3
			<hr/>	<hr/>
			20	20
4	CE 325, 328	Elements of Structural Design A, B	3	3
	CE 367, 368	Project Planning and Control A, B	3	3
	CE 443	Foundations	0	3
	CE 464	Legal Aspects of Contracting	0	3
	EC 432	Industrial Relations	2	0
	ENG 231	Basic Speaking Skills	3	0
	IE 301	Engineering Economy	2	0
		Humanities	3	3
		Air or Military Science or		
		Electives	3	3
			<hr/>	<hr/>
			19	18

— — — — — PROFESSIONAL STUDY IN CIVIL ENGINEERING

Fifth-year programs of study leading to the professional degree Civil Engineer are offered in the following specialty fields: sanitary engineering, soil mechanics and foundation engineering, structural engineering, and transportation engineering. The fifth-year curricula, which are made up of advanced course work, are offered as a continuation of the four-year undergraduate program and are designed for students who are desirous of becoming technically proficient in one of the specialty fields of civil engineering. The following curricula are illustrative of the fifth-year programs of study. It is to be understood, however, that a curriculum for a given student is designed in consultation with his advisory committee to suit his particular interests.

Regulations Governing the Professional Program are Shown on Pages 132-133.

— — — — — CURRICULUM IN SANITARY ENGINEERING

5			Credits	
	CE 571	Theory of Water and Sewage Treatment	3	0
	CE 572	Unit Operations and Processes in Sanitary Engineering	0	3
	CE 573	Analysis of Water and Sewage	3	0
	CE 598	Civil Engineering Projects	2	2
	CE 671	Advanced Water Supply and Sewage	4	0
	CE 672	Advanced Water and Sewage Treatment	0	4
		Electives	3	6
			<hr/>	<hr/>
			15	15

CURRICULUM IN SOIL MECHANICS AND FOUNDATION ENGINEERING

5	CE 507	Airphoto Analysis I	3	0
	CE 524	Analysis and Design of Masonry Structures	0	3
	CE 544	Foundation Engineering	0	3
	CE 548	Soil Testing for Engineering Purposes	0	3
	CE 621	Advanced Structural Analysis I	3	0
	CE 641	Advanced Soil Mechanics	3	0
	CE 643	Hydraulics of Ground Water	0	3
	MA 401	Differential Equations	3	0
		Electives	3	3
			<hr/>	<hr/>
			15	15

— — — — — CURRICULUM IN STRUCTURAL ENGINEERING

5	CE 521, 522	Advanced Structural Design I, II	3	3
	CE 544	Foundation Engineering	0	3
	CE 621, 622	Advanced Structural Analysis I, II	3	3
	EM 551	Advanced Strength of Materials	3	0
	EM 602	Theoretical and Applied Elasticity	0	3
	MA 401	Differential Equations	3	0
		Electives	3	3
			<hr/>	<hr/>
			15	15

ENGINEERING

CURRICULUM IN TRANSPORTATION ENGINEERING — — — — —

CE 515	Transportation Analysis	3	0
CE 516	Transportation Planning	0	3
CE 601, 602	Advanced Transportation Engineering I, II	3	3
CE 603, 604	Transportation Engineering Design I, II	3	3
	Electives	6	6
		<hr/> 15	<hr/> 15

GRADUATE STUDY IN CIVIL ENGINEERING — — — — —

Graduate work is offered in Civil Engineering leading to the degree of Master of Science in Civil Engineering. Facilities are available for research in airphoto interpretation, sanitary engineering, soil mechanics and foundation engineering, structural engineering, and transportation engineering. The Graduate School Catalog should be consulted for the requirements for the Master of Science degree.

ELECTRICAL ENGINEERING — — — — —

Professor G. B. HOADLEY, *Head of the Department*

Professor Emeritus WILLIAM HAND BROWNE, JR.

Professors V. S. CARSON, R. S. FOURAKER, W. F. GAUSTER, J. H. LAMPE,
W. D. STEVENSON, JR.

Visiting Professor J. L. BEAVER

Associate Professors W. J. BARCLAY, K. B. GLENN, E. W. WINKLER

Assistant Professors A. J. GOETZE, E. G. MANNING, R. J. PEARSALL

Instructors H. MOTT, H. D. RANDOLPH

OBJECTIVES — — — — —

The purpose of the undergraduate curriculum is to train young men for active work in a wide and diversified field. The electrical industry demands, above all else, a thorough preparation in the sciences underlying all branches of engineering, a broad foundation in fundamental electrical theory, and a clear understanding of the characteristics of electrical machinery and systems. These factors are essential for success, whether it be in the design and manufacture of electrical equipment, in power production and utilization, or in the fields of communication and electronics, since in all of these branches of the industry technical advances are being made with increasing rapidity.

CURRICULUM — — — — —

With this object in view, the curriculum in Electrical Engineering includes comprehensive training in mathematics and physics—the fundamental sciences—and adequate training in allied branches of engineering. All courses are accompanied by coordinated work in the laboratory and intensive drill in the application of theory by means of carefully planned problems. In the senior year, the student is offered a choice of Power, Communications, or Controls.

The curriculum includes a thorough drill in the preparation and delivery of technical reports.

Each student is required to spend at least six weeks in satisfactory industrial employment before receiving his degree.

FACILITIES

The Department is housed in Daniels Hall. It maintains the following laboratories: Dynamo, Communications and Electronics, Industrial Electronics and Control, Sophomore, Standards, and Photometry. In addition, there are an instrument room, a shop, and a number of research rooms.

DEPARTMENTAL STUDY ACTIVITIES

Close coordination with the work of the professional electrical engineering societies is maintained through the AIEE-IRE Joint Student Branch which meets twice a month. Faculty advisers assist the students in bringing to these meetings practicing engineers. The Joint Student Branch also sponsors departmental activities such as picnics for new students and departmental participation in the Engineering Fair.

An active chapter of Eta Kappa Nu, the national honorary Electrical Engineering fraternity, undertakes numerous important projects in addition to holding two initiation banquets yearly.

CURRICULUM IN ELECTRICAL ENGINEERING

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EE 201, 202	Elementary Circuits and Fields	4	4
	ENG 205	Reading for Discovery; and		
	EC 205	The Economic Process	3	3
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202*	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education*	1	1
			<hr/>	<hr/>
			19	19
3	EE 301, 302	Intermediate Circuits and Fields	4	3
	EE 305, 306	Electrical Machinery	4	4
	EE 414	Electron Tubes	0	4
	EM 341, 342	Engineering Mechanics, A, B	2	2
	MA 401	Differential Equations	3	0
	SS 301, 302	Contemporary Civilization	3	3
		Electives**	3	3
			<hr/>	<hr/>
			19	19
4	EE 411, 412	Electrical Engineering Pro-Seminar	1	1
	EE 501, 502	Advanced Circuits and Fields	3	3
	EM 343	Strength of Materials A	2	0
	EM 430	Fluid Mechanics	0	2
	ME 301, 203	Engineering Thermodynamics	3	3
	SS 491	Contemporary Issues I	3	0
		Departmental Electives***	4	4
		Elective in the Humanities or Social Sciences	0	3
			<hr/>	<hr/>
			19	19

* Students excused from Military or Air Science and or Physical Education will schedule equivalent credits in courses outside their department.

** The Junior and Senior Electives may be taken in advanced Military Science. If not, they are free electives, subject to the approval of the student's adviser and the Department Head.

*** For these 8 credits, students may choose the sequence EE 511, 512, Electric Communication, or EE 513, 514, Electric Power Engineering, or EE 515 Industrial Electronics and EE 516 Fundamentals of Servomechanisms.

ENGINEERING

PROFESSIONAL STUDY IN ELECTRICAL ENGINEERING— — — — —

A fifth, or professional, year of study is offered in Electrical Engineering as a continuation of the four-year undergraduate program. This fifth year of study offers specialized and advanced course work leading to the degree of Electrical Engineer.

Each student taking this fifth year work has his program of courses planned to meet his individual needs. The following curricula are illustrated only, and are printed merely to show the sort of program a professional student might follow.

Regulations Governing the Professional Study are Shown on Pages .

CURRICULUM

Typical Programs

			Credits	
5	ELECTRIC POWER			
	EE 605	Electrical Engineering Seminar	1	0
	EE 635, 636	Dielectric Theory and High Voltage Engineering	3	3
	EE 637, 638	Power System Analysis	3	3
	EM 531	Hydraulic Machinery	2	0
	EM 554	Vibration Problems	0	3
	MA 511, 512	Advanced Calculus I, II	3	3
	ME 401, 402	Power Plants I, II	3	3
			15	15
5	COMMUNICATIONS			
	EE 605	Electrical Engineering Seminar	1	0
	EE 611, 612	Communications Network	4	4
	EE 615	Electromagnetic Waves	4	0
	EE 616	Advanced Radio Engineering	0	4
	MA 511, 512	Advanced Calculus I, II	3	3
	PY 407	Introduction to Modern Physics	3	0
	PY 544	Vibration, Wave Motion, and Acoustics	0	4
			15	15

GRADUATE STUDY IN ELECTRICAL ENGINEERING — — — — —

The graduate degrees offered by the Department of Electrical Engineering are the Master of Science in Electrical Engineering and the Doctor of Philosophy in Electrical Engineering.

At North Carolina State College, the graduate offering in electronics and communications includes courses in Electric Communications, Communication Networks, Advanced Radio Engineering, Radiation and Antennas, and Vacuum Tube Design. These courses are supplemented by experimental work carried on in various special departmental laboratories, such as the high-vacuum laboratory and the microwave laboratory. These special laboratories, together with a number of small laboratories in which graduate students carry on individual research problems, are in the newly constructed Daniels Hall addition.

Graduate students specializing in electric power have the opportunity of taking courses in Electric Transmission, Power Network Calculations, Theory and Design of Electric Machines, Industrial Electronics and Control, High Voltage Engineering, and Power Systems. In this case also

there are special laboratories such as the high-voltage laboratory and the servomechanisms laboratory, in which laboratory instruction related to these courses is given, and there are individual research rooms for thesis work.

For further information concerning graduate study in Electrical Engineering, the current Graduate School Catalog of North Carolina State College should be consulted.

— — — — — ENGINEERING MECHANICS

Professor G. WALLACE SMITH, Head of the Department

Professor ADOLPHUS MITCHELL

Associate Professor L. W. LONG

Assistant Professor G. W. MIDDLETON

Instructors MAURICE H. CLAYTON, G. A. EASON

— — — — — UNDERGRADUATE STUDY

The Department of Engineering Mechanics teaches and administers the courses in theoretical and applied mechanics, strength of materials, and fluid mechanics. These courses are fundamental to the professional and design courses of the several Engineering curricula. The student is expected to acquire a basic knowledge of the physical properties of materials and the laws that govern their use in engineering design.

— — — — — GRADUATE STUDY

A student who is interested in investigation and research, and who has the proper prerequisite, may take a course of study offered by this department which leads to the degree of Master of Science in Engineering Mechanics. For general regulations of the Graduate School, the Graduate School Catalog should be consulted.

— — — THE DEPARTMENT OF ENGINEERING RESEARCH

N. W. CONNOR, Director

Research Professor of Ceramic Engineering W. C. BELL

Research Associate Professor of Metallurgy H. H. STADELMAIER

Research Associate Professor of Mechanical Engineering PATRICK H. McDONALD, JR.

Research Associate KING R. BROSE, LAWRENCE B. MCGEE, ROBERT A. MCLEAN, FRANCES M. RICHARDSON

Research Assistants DORIS BETHUNE, ROBERT G. GARVIN, HAROLD A. LAMONDS, ARTHUR E. LUCIER, JOSEPH G. LUNDHOLM, JR., JAMES P. SMYLY, JAMES T. TANNER, JR., CHARLES TERRELL, MAYNARD G. THORNE, ELIZABETH M. WHITENER

Research Engineers MASON K. BANKS, ALEX A. CARLYLE, EUGENE E. ERICKSON, E. H. TOMPKINS

Mineral Dressing Engineers W. A. FAUST, W. G. WELLS

Chemist P. N. SALES

Chief Technician WADE E. GRIFFIN

Technicians ALLEN D. FERGUSON, R. F. PENNY

ENGINEERING

OBJECTIVES — — — — —

Research and teaching are the two responsibilities of the true university. The School of Engineering has a clear appreciation of the obligation of education to further man's understanding of the world in which he lives and of the contribution of research to effective teaching. Within the School, research programs are conducted in many fields of engineering; these activities are given strong encouragement and support through the Department of Engineering Research.

As a unit of North Carolina's Land-Grant College, the School of Engineering is obligated to serve the industrial life of the state. Functioning in this capacity, it offers a broad program of service and experimental aid through the Department of Engineering Research. Many industries in the state have brought problems to the School; association with the industrialists of the state is being sought and strengthened constantly. This service is further strengthened through close cooperation with the North Carolina Department of Conservation and Development. Particular encouragement and assistance are granted those investigations that give promise of new industry to North Carolina.

FACILITIES — — — — —

The Department of Engineering Research, established originally in 1923 as the Engineering Experiment Station, maintains laboratories and a full-time staff devoted exclusively to experimental work. Its operations are carried out in close cooperation with the administration and faculties of the teaching departments. The abilities of the various departments of engineering are combined through the Department so that the complete research capacity of the School of Engineering is available for experimental work in any field. The Department also acts as the administrator for the School in negotiations involving research programs done for private industry and for governmental agencies.

The Minerals Research Laboratory in Asheville is engaged in the expansion of North Carolina mineral production through facilities for the development of improved processes of mineral concentration, or examination and appraisal, and chemical analysis.

The Industrial Experimental Program was created by the 1955 General Assembly acting upon a request from the School of Engineering. Its objective is to provide technical assistance to the State's small industry and to promote utilization of its natural resources.

RESEARCH PROGRAMS — — — — —

Today the research capacity of the nation is being called upon as a resource for national security. Research facilities of colleges and universities are prominent in this defense capacity, and the School of Engineering at North Carolina State College is now strong in its ability to serve among the leading engineering schools of the country. Several research programs sponsored by the services have been in progress for several years; the School's capacity for expanded service is large.

Research currently in progress includes work being done for the Air Material Command of the U. S. Air Force, the Office of Ordnance Research, the Bureau of Ships, the Wright Air Development Center, Redstone Arsenal, and the Texas Company. Work is included in the fields of structural clay products, radiant heating, stress analysis, rotational speed deviation measurements, tannin extraction, recovery from fish waste, erosion of plastics, fuel oils, precipitation hardening and diffusion in alloys, and electronics.

Upon their conclusions, results of the engineering investigations are published as bulletins so that the information obtained may be made

available to the public and be contributed to the total field of technical knowledge. A complete list of the bulletins published to date or any other information pertaining to the operation or availability of the facilities of the Department will be furnished upon request.

RESEARCH FELLOWSHIPS

To assure wider benefits for both graduate and undergraduate students from the engineering research activities, the Department offers several Research Fellowships and employs some of the more promising and deserving students as assistants in the laboratory on a part-time basis.

INDUSTRIAL ENGINEERING

Professor R. G. CARSON, JR., Head of the Department

Professor E. S. JOHNSON

Associate Professor R. D. FURLONG

Assistant Professors R. L. COPE, J. A. NATTRESS

Instructors C. W. MADDISON, R. D. KELLEY

Visiting Lecturers RUDOLPH WILLARD, S. A. DERRY

OBJECTIVES

Industrial Engineering is a relatively new branch of the engineering profession. Its growth has been steady over the past ten years. As a college curriculum, it is the result of a demand by industry for graduates who are trained in the fundamentals of engineering and who have acquired a knowledge of how industry is organized and operated.

CURRICULUM

It is the industrial engineer's job to transform plans, specifications and blueprints into plant, equipment and personnel to create the product. He is concerned also with controls and plans for the profitable and continued operation of an existing plant.

The Industrial Engineering program at North Carolina State College has been planned with this viewpoint in mind. After the first year, which is common with all other branches of engineering, the curriculum includes courses in Industrial Organization and Management, Motion and Time Study, Plant Layout, Quality Control, Job Evaluation, Accounting, Personnel and Labor Relations and Production Control together with other specialized courses which help develop a background and technique for understanding our modern industrial system.

The Industrial Engineering curriculum has been inspected and accredited by the Engineers' Council for Professional Development.

Student organizations within the department include a student chapter of the American Institute of Industrial Engineers.

OPPORTUNITIES

North Carolina has many types of manufacturing in which industrial engineers may be employed. Whether the graduate goes into manufacturing, marketing and sales, or business, he is prepared through his training to understand the relationship between organization functions. This understanding is conducive to a higher efficiency of individual performance and more rapid preparation for managerial positions.

ENGINEERING

CURRICULUM IN INDUSTRIAL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits		
2	IE 206	Industrial Organization and Management	0	3	
	IE 217, 218	Machine Tools and Metal Forming	1	1	
	MA 201, 202	Calculus I, II	4	4	
	PY 201, 202	General Physics	5	5	
	PSY 200	Introduction to Psychology	3	0	
		Humanities	3	3	
	MS 201, 202	Military Science			
	or	or			
	AS 221, 222	Air Science	2	2	
	PE 201, 202	Physical Education	1	1	
			19	19	
3	EC 401	Principles of Accounting	0	3	
	EM 341, 342	Mechanics A, B (Statics, Dynamics)	2	2	
	ENG 321	Scientific Writing	0	3	
	IE 301	Engineering Economy	0	2	
	IE 328	Manufacturing Process	3	0	
	IE 332	Motion and Time Study	4	0	
	IE 343	Plant Layout and Materials Handling	0	4	
	ME 301	Engineering Thermodynamics I	3	0	
	ST 361	Introduction to Statistics for Engineers	2	0	
	SS 301, 302	Contemporary Civilization	3	3	
		Military, Air Science or Electives	3	3	
				20	20
4	EE 320	Elements of Electrical Engineering	4	0	
	EM 343	Strength of Materials A and			
	EM 430	Fluid Mechanics	2	2	
	IE 408	Production Control	3	0	
	IE 430	Job Evaluation and Wage Administration	0	3	
	IE 443	Quality Control	3	0	
	IE 451, 452	Seminar	1	1	
		Group I Elective	0	3 or 2	
		Technical Elective	0	3 or 4	
	SS 491	Contemporary Issues I and			
		Elective in Humanities	3	3	
		Military, Air Science or Electives	3	3	
				19	18

Group I Elective; one of the following:

EC 426	Personnel Management	3
EC 431	Labor Problems	2
EC 433	Industrial Relations	2
PSY 337	Industrial Psychology I	3
PSY 438	Industrial Psychology II	3

— — — — — **PROFESSIONAL STUDY IN INDUSTRIAL ENGINEERING**

A fifth, or professional, year of study is offered in Industrial Engineering as a continuation of the four-year undergraduate program. This fifth year of study offers specialized and advanced course work leading to the degree of Industrial Engineer.

Regulations Covering this Degree are Shown on Pages 132-133.

Typical Program

		Credits	
IE 425	Sales and Distribution Methods	0	2
IE 515	Process Engineering	3	0
IE 517	Automatic Processes	3	0
IE 543	Standard Data	3	0
IE 551	Standard Costs for Manufacturing	0	3
IE 581, 582	Project Work	2	2
IE 635	Planning for Production	0	3
IE 671, 672	Seminar	1	1
	Electives	3	4
		<hr/> 15	<hr/> 15

— — — — — **GRADUATE STUDY IN INDUSTRIAL ENGINEERING**

For general regulations, The Graduate School Catalog should be consulted. Graduate work is offered in Industrial Engineering leading to the degree of Master of Science in Industrial Engineering.

— — **FURNITURE MANUFACTURING AND MANAGEMENT**

Professor E. SIGURD JOHNSON, In Charge

— — — — — **OBJECTIVES**

Any curriculum in the School of Engineering has as an aim the preparation of men capable of handling the technical problems arising in the jobs which they undertake. Where industry is already equipped with qualified engineers, the new employee with a basic engineering education can be given on-the-job training in analyzing and solving the special problems peculiar to the particular plant or industry.

In the case of the furniture industry, practically no experienced engineers exist. To be of service the College must emphasize to a greater extent the application of engineering principles to the problems of the furniture industry. This can be done effectively only if the instructional staff is aware of the problems of the industry from direct contact and not merely from academic discussion and the available literature. Consequently the program has been worked out in conjunction with representatives of the manufacturers. Their viewpoint is based on a survey made among the entire membership of the Southern Furniture Manufacturers' Association. Results of the survey indicate an overwhelming interest in college training to prepare men for work in this industry.

— — — — — **CURRICULUM**

It is the purpose of the curriculum offering the degree of Bachelor of Science in Furniture Manufacturing to prepare graduates for technical and, eventually, executive positions in the furniture industry. The curriculum will emphasize the application of engineering to furniture manufacturing. Related subjects covering management, labor relations, accounting, marketing and sales will stress the technical as well as the human side of modern production methods and techniques.

ENGINEERING

STUDENT ACTIVITIES — — — — —

The Industrial Engineering Department sponsors the Furniture Club, whihc is operated by the students. All students in the curriculum are eligible for membership in the organization. The club brings in speakers from industry and holds social gatherings for the students.

FURNITURE MANUFACTURING AND MANAGEMENT CURRICULUM — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	ENG 211	Business Communications	3	0
	ENG 231	Basic Speaking Skills	0	3
	FOR 202	Engineering Properties of Wood	1	0
	FOR 303	Wood-Moisture Relations	0	2
	IE 206	Industrial Organizations and Management	3	0
	IE 224	Wood Working Equipment	0	3
	PY 211, 212	General Physics	4	4
	TX 271	Upholstery Fabrics	2	0
		Humanities	3	3
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			19	18

3	EC 401	Principles of Accounting	0	3
	FOR 433	Gluing and Plywood	3	0
	FOR 443	Wood Finishing	0	3
	IE 322	Furniture Design and Construction	2	0
	IE 326	Furniture Manufacture and Processing	0	3
	IE 332	Motion and Time Study	4	0
	PSY 200	Introduction to Psychology	3	0
	SS 301, 302	Contemporary Civilization	3	3
	ST 361	Introduction to Statistics for Engineers	0	3
		Technical Electives	2	2
		Military or Air Science or Electives	3	3
			20	20

4	EC 432	Industrial Relations	0	2
	FOR 563	Quality Control in Wood Product		
		Manufacturing	3	0
	IE 341	Furniture Plant Layout and Design	3	0
	IE 408	Production Control	3	0
	IE 430	Job Evaluation and Wage Administration	0	3
	IE 451, 452	Seminar	1	1
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Technical Electives	3	6
		Military or Air Science or Electives	3	3
			19	18

THE DEPARTMENT OF MATHEMATICS

Professor H. A. FISHER, *Head of the Department*

Professors R. C. BULLOCK, J. W. CELL, J. M. CLARKSON, JACK LEVINE,
C. G. MUMFORD, H. M. NAHIKIAN, H. V. PARK, H. PAGE WILLIAMS,
L. S. WINTON

Associate Professors P. E. LEWIS, C. F. STROBEL, G. C. WATSON

Assistant Professors E. J. CANADAY, H. C. COOKE, ANNA MAE HARRIS,
C. F. LEWIS, D. M. PETERSON, V. R. BRANTLEY, C. H. LITTLE, JR.,
A. R. NOLSTAD, H. A. PETREA

Instructors H. E. SPEECE, RUTH B. HONEYCUTT, C. N. ANDERSON, G. C.
CALDWELL, MARTHA J. GARREN, A. R. MARSHALL, CARLOTTA P.
PATTON, W. C. TURNER, D. P. WYLIE

OBJECTIVES

There is great need both in industry and in the field of teaching for people trained in applied mathematics. The increasing use of both digital and analog computers and the shift to automation in industry have given rise to requirements for mathematics analysts. The Department of Mathematics offers opportunities in the elementary and advanced courses for the student to learn important concepts in mathematics and to apply these to situations in engineering and the sciences.

CURRICULUM

The curriculum for the Bachelor of Science in Engineering Mathematics has been set up to provide the student with a sound foundation in mathematics, and at the same time to give enough flexibility to permit the student to carry out a rather thorough study in some field of Engineering. The number of required courses has thus been held to a minimum in order that the individual needs of students may be met more readily. It will be the duty of the student's individual adviser to direct the student in the choice of a sound program of electives. The curriculum is designed especially to meet the needs of students who wish to go into positions in industry requiring a good mathematical background and who therefore will require mathematics *plus* a knowledge in some branch of application.

The program for the Master's Degree in Applied Mathematics presupposes either an undergraduate degree in engineering, or a degree in applied mathematics, or a Bachelor of Arts degree with proper emphasis in physics or equivalent background material. The student's program will be planned by his graduate advisory committee. A minor is required in one or two fields of engineering or in statistics.

CURRICULUM IN ENGINEERING MATHEMATICS

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
1	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	ENG 205	Reading for Discovery and		
	EC 205	The Economic Process	3	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Electives*	3	3
			<hr/> 18	<hr/> 18

ENGINEERING

1	MA 401	Differential Equations and Mathematics***	3	3
	ST 361	Introduction to Statistics for Engineers	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Engineering**	3	3
		Electives, Military or Air Science Electives*	3	3
			8	4
			<hr/>	<hr/>
			20	19
2	MA 511, 512	Advanced Calculus I, II	3	3
	MA 535	An Introduction to Computers and Mathematics***	3	3
	SS 491	Contemporary Issues I and Elective in Humanities	3	3
		Engineering**	3	3
		Electives, Military or Air Science	3	3
		Statistics*** or EC 555 Introduction to Linear Programming	3	0
		Electives*	0	5
			<hr/>	<hr/>
			18	20

* Elective courses are to be chosen subject to approval of the student's adviser and the Department Head. A year (6 credits) of a foreign language is recommended and more may be taken, e.g. ML 103, 104; 403, 404.

** A minimum of 12 credits of work in one or two Departments in Engineering is required. This sequence of engineering courses will require the approval of the student's adviser or Department Head. Sequences chosen from the following are recommended:

E 201, 202; 301, 302; 511, 512.

EM 311, 312; 322, 430

CHE 301, 302; 411, 412; 415

ME 351, 352; 453

PY 401, 402, 403, 404; 407, 410

*** The courses in Mathematics and Statistics may be selected from the following subject to approval of the student's adviser and the Department Head:

MA 402, 403, 404; 501, 502; 514; 522; 532; 541

ST 515, 516, 521, 522

CURRICULUM FOR MASTER OF SCIENCE IN APPLIED MATHEMATICS —

Prerequisites:		Credits
	Drawing	4
	Mechanics	6
	Strength of Materials	3
	Physics	4
	Differential Equations	3
Required Courses:		
MA 511, 512	Advanced Calculus	3 3
MA 541	Vector Analysis	3 or 3
MA 602	Partial Differential Equations	0 3
MA 611	Complex Variables and Applications	3 0
MA 632	Operational Mathematics	3 0

A minimum of 12 additional credits is required to be selected in consultation with an advisory committee. At least 9 of these 12 hours will be chosen from one or two fields allied to mathematics; such as engineering, physics, mechanics, or statistics. Representatives of the departments concerned will serve as members of the advisory committee.

— — — — — **MECHANICAL ENGINEERING**

Professors K. P. HANSON, *Head of the Department*
Professors Emeritus H. B. BRIGGS, E. G. HOEFER, L. L. VAUGHAN
Professors J. S. DOOLITTLE, V. M. FAIRES, R. B. KNIGHT, J. F. LEE, R. M. PINKERTON, R. B. RICE
Associate Professors W. E. ADAMS, W. S. BRIDGES, T. C. BROWN, P. E. MOOSE
Assistant Professors J. J. CLEARY, M. L. ENGLISH, LEE HARRISBERGER, T. B. LEDBETTER, P. B. LEONARD, T. J. MARTIN, J. K. WHITFIELD
Instructors D. C. BROWN, MALCOLM LEWIS, H. K. McMILLAN, T. L. NASH, E. H. STINSON

— — — — — **OBJECTIVES**

The Mechanical Engineering Department offers a four-year bachelor's program in Mechanical Engineering and in Aeronautical Engineering as an option in the Mechanical field. The curricula in both Mechanical Engineering and the Aeronautical option are accredited by the Engineers' Council for Professional Development.

The mechanical engineer is primarily a designer and builder of machines and other equipment for use in manufacturing processes, transportation, and the generation of power. He is responsible for the conservation and economical use of the power-producing resources of the world through the application of the proper equipment in each field of production. He is called upon to take charge of the management of the manufacturing and power industries. For the mechanical engineer to be well grounded in his profession, he must be thoroughly familiar with both the science and the art of engineering.

— — — — — **CURRICULUM**

The curriculum in Mechanical Engineering begins with a thorough training in mathematics, physics, and chemistry, as a foundation for the technical work which is later developed along several parallel lines. The student is taught how these fundamental sciences are applied to the physical properties of the materials of construction and to the transformation of heat energy into work and power. This is accomplished by means of courses in theory and through instruction in the mechanical laboratories.

The curriculum in Aeronautical Engineering (option under Mechanical Engineering) embodies the same basic studies as the Mechanical Engineering program, specializing in Aeronautical sciences in the junior and senior years. Graduates of this curriculum are prepared to take their places in the fields of design, production, and research in the Aeronautical industries.

The primary objective of the Aeronautical Option is to provide general training in subjects fundamental to Aeronautical Engineering. In general, the professional subjects are directed toward aerodynamics, structures, and airplane design with special emphasis on the fundamental treatment of aeronautical science; to familiarize the student with the principles of flight and with the general criteria of design and construction as applied to the airplane. Classroom work is supported by experimental activities in the aeronautical laboratory which offers facilities in wind tunnel, structural, and instrument studies. The first three years of study are, for the most part, devoted to fundamental subjects, the strictly professional work being deferred until the fourth year.

Through the training offered in this department, it is hoped that the young graduate, after gaining some experience in industry, will be qualified to accept the responsibilities which will be imposed upon him in Mechanical and Aeronautical industries.

ENGINEERING

CURRICULUM IN MECHANICAL ENGINEERING — — — — —
FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

		Credits	
ENG 205	Reading for Discovery	3	0
HI 205	The Modern Western World	0	3
EM 311	Engineering Mechanics I (Statics)	0	3
IE 217, 218	Machine Tool; Metal Forming	1	1
MA 201, 202	Calculus I, II	4	4
PY 201, 202	General Physics I, II	5	5
MS 201, 202	Military Science II		
or	or		
AS 221, 222	Air Science II	2	2
PE 201, 202	Physical Education	1	1
	Elective	3	0
		19	19
EM 312	Engineering Mechanics II (Dynamics)	3	0
EM 321	Strength of Materials I	0	3
EM 430	Fluid Mechanics	0	2
MA 401	Differential Equations	3	0
ME 301, 302	Engineering Thermodynamics I, II	3	3
ME 305, 306	Mechanical Engineering Laboratory I, II	1	1
ME 311	Kinematics	3	0
ME 312	Dynamic Analysis	0	3
SS 301, 302	Contemporary Civilization	3	3
	Electives, Military or Air Science	3	3
		19	18

SUMMER REQUIREMENT: Six weeks' industrial employment

EE 331, 332	Principles of Electrical Engineering	4	4
ME 401	Power Plants	3	0
ME 405, 406	Mechanical Engineering Laboratory III, IV	1	1
ME 411, 412	Machine Design I, II	3	3
ME 441	Technical Seminar	1	0
ME 502	Heat Transfer	0	3
MIM 421, 422	Metallurgy I, II	2	2
MIM 423	Metallurgy Laboratory	0	1
SS 491	Contemporary Issues I; and		
	Elective in Humanities	3	3
	Electives, Military or Air Science	3	3
		20	20

CURRICULUM IN AERONAUTICAL OPTION — — — — —
FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

		Credits	
ENG 205	Reading for Discovery	3	0
HI 205	The Modern Western World	0	3
EM 311	Engineering Mechanics I (Statics)	0	3
IE 217, 218	Machine Tool; Metal Forming	1	1
MA 201, 202	Calculus I, II	4	4
PY 201, 202	General Physics I, II	5	5

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MS 201, 202	Military Science II		
or	or		
AS 221, 222	Air Science II	2	2
PE 201, 202	Physical Education	1	1
	Elective	3	0
		<hr/>	<hr/>
		19	19

3	ME 351	Elements of Aeronautical Engineering	3	0
	ME 352	Aerodynamics	0	3
	EM 312	Engineering Mechanics II (Dynamics)	3	0
	EM 321	Strength of Materials I	0	3
	MA 401	Differential Equations	3	0
	ME 301, 302	Engineering Thermodynamics I, II	3	3
	ME 305, 306	Mechanical Engineering Laboratory I, II	1	1
	ME 311	Kinematics	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			<hr/>	<hr/>
			19	19

SUMMER REQUIREMENT: Six weeks' industrial employment

4	ME 441	Technical Seminar	1	0
	ME 459	Aircraft Structures	3	0
	ME 455, 456	Aeronautical Laboratory I, II	1	1
	ME 461, 462	Airplane Design I, II	3	3
	ME 536	Aircraft Engines	0	3
	EE 320	Elements of Electrical Engineering	4	0
	ME 410	Jet Propulsion	0	3
	MIM 421, 422	Metallurgy I, II	2	2
	MIM 423	Metallurgy Laboratory	0	1
	SS 491	Contemporary Issues I; and		
		Elective in Humanities	3	3
		Electives, Military or Air Science	3	3
			<hr/>	<hr/>
			20	19

HEATING AND AIR CONDITIONING

Professor R. B. KNIGHT, In Charge

OBJECTIVES

The objective of the program in Heating and Air Conditioning offered by the Mechanical Engineering Department is to train young men in this specialized field and prepare them to take positions in industry in the design, construction, and operation of heating, ventilating, and air conditioning systems as well as in the management of such industries and as sales representatives of companies manufacturing equipment for the trade.

CURRICULUM

The curriculum has the first year in common with the regular engineering program and starts specialization in the second year. Sufficient basic science courses are required in the first years to establish a firm foundation for the more technical courses in the later years. Training is accomplished by lecture, recitation, and demonstration work with a liberal inclusion of laboratory work illustrating the theory and drawing atten-

ENGINEERING

tion to the practical aspects of the subject. Provision is made for the more liberal aspects of college education through the humanities courses. Electives in the junior and senior years for those who do not choose advanced Military Science allow further liberal or technical education in any group of courses which will meet with the objectives of the individual.

DEGREES — — — — —

The four-year program in Heating and Air Conditioning leads to the degree of Bachelor of Science in Heating and Air Conditioning.

HEATING AND AIR CONDITIONING CURRICULUM — — — — —
FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EC 205	The Economic Process; and		
	ENG 205	Reading for Discovery	3	3
	EC 312	Accounting for Engineers	0	3
	ENG 211	Business Communications	3	0
	EM 341	Mechanics "A" (Statics)	0	2
	IA 215	Sheet Metal	1	0
	IE 269	Welding and Pipe Shopwork	0	1
	MA 201	Calculus I	4	0
	ME 271, 272	Air Conditioning Drawing I, II	2	2
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			—	—
			20	18
3	CE 351	Details of Building Construction	2	0
	EE 341, 342	Industrial Electricity I, II	4	4
	EM 342	Mechanics "B" (Dynamics)	2	0
	EM 343	Strength of Materials A	2	0
	EM 430	Fluid Mechanics	0	2
	ME 371, 372	Elementary Heat Power I, II	3	3
	ME 375, 376	Air Conditioning Laboratory I, II	1	1
	ME 381	Air Conditioning I	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			—	—
			20	19

SUMMER REQUIREMENT: Six weeks' industrial employment.

4	EC 407	Business Law I	0	3
	IE 206	Industrial Organization	2	0
	IE 425	Sales and Distribution Methods	0	3
	ME 379	Mechanical Equipment of Buildings	0	3
	ME 382	Air Conditioning II	3	0
	ME 473	Refrigeration	3	0
	ME 475, 476	Air Conditioning Laboratory III, IV	1	1
	ME 481, 482	Air Conditioning Design I, II	3	3
	SS 491	Contemporary Issues I; and		
		Elective in Humanities	3	3
		Electives, Military or Air Science	3	3
			—	—
			18	19

— — — — — PROFESSIONAL STUDY IN MECHANICAL ENGINEERING

A fifth, or professional year of study is offered in Mechanical Engineering, as a continuation of the four-year undergraduate program. This fifth year of study offers specialized and advanced work leading to the degree of Mechanical Engineer.

Regulations Covering this Degree are Shown on Pages 132-133.

CURRICULUM

Typical Programs

			Credits	
HEAT-POWER				
5	ME 403	Internal Combustion Engines	0	2
	ME 501	Steam and Gas Turbines	3	0
	ME 502	Heat Transfer	0	3
	ME 545, 546	Project Work in Mechanical Engineering I, II	2	2
	ME 601	Advanced Engineering Thermodynamics I	3	0
	ME 602	Advanced Power Plants	3	0
	ME 604	Nuclear Power Plants	0	3
	ME 641, 642	Mechanical Engineering Seminar I, II	1	1
	Approved Electives	3	4	
		15	15	
DESIGN				
5	EM 554	Vibration Problems	0	3
	MA 401	Differential Equations	3	0
	ME 515	Experimental Stress Analysis	3	0
	ME 517	Lubrication	0	3
	ME 521	Advanced Physical Metallurgy I	3	0
	ME 545, 546	Project Work in Mechanical Engineering I, II	2	2
	ME 611, 612	Advanced Machine Design I, II	3	3
	ME 641, 642	Mechanical Engineering Seminar I, II	1	1
		15	15	
AERONAUTICAL				
5	ME 453	Applied Aerodynamics	3	0
	ME 562	Advanced Aircraft Structures	0	3
	ME 502	Heat Transfer	3	3
	ME 552	Aircraft Applied Loads	3	0
	ME 554	Advanced Aerodynamics	0	3
	ME 545, 546	Project Work in Mechanical Engineering I, II	2	2
	ME 641, 642	Mechanical Engineering Seminar I, II	1	1
		Approved Electives	3	6
		15	15	

ENGINEERING

GRADUATE STUDY IN MECHANICAL ENGINEERING — — — — —

Graduate work leading to the degree of Master of Science in Mechanical Engineering is offered in three specific fields: Heat-Power, Design, and Aeronautics. Graduate staff members in these fields are men of national reputation for their achievement and competency. Active research programs in the fundamentals and applications of Mechanical Engineering provide excellent opportunities for graduate students to gain competency in their selected field of study.

For general regulations, the Graduate School Catalog should be consulted.

MINERAL INDUSTRIES — — — — —

Professors W. W. AUSTIN, *Head*, W. C. BELL, I. FERENCZI, W. W. KRIEDEL, J. M. PARKER, III
Associate Professors W. C. HACKLER, E. L. MILLER, JR., H. H. STADELMAIER
Instructors R. B. MOFFITT, W. E. MOODY

OBJECTIVES — — — — —

The primary objectives of the Department of Mineral Industries are the training and professional development of qualified technical and administrative leaders for those industries concerned with the location and utilization of mineral resources. Included within this scope of operation are the fields of Geological, Ceramic and Metallurgical Engineering.

CURRICULA — — — — —

Complete four-year undergraduate curricula in Geological, Ceramic, and Metallurgical Engineering are available in the Department. Fifth year professional programs are also available for advanced work and specialization in each of these fields, an dgraduate programs leading to the Master's and Doctor's degrees in Ceramic Engineering, and to the Master's degree in Geological Engineering are offered.

FACILITIES — — — — —

The facilities of the Department of Mineral Industries are housed in Page Hall and the Ceramic Building. Located in Page Hall are departmental offices, drawing rooms, classrooms and extensive laboratory facilities for instructional work and research in the three areas of study covered by the department. Typical of the numerous well equipped laboratories in the building are those established for instruction in the following areas of study; ceramic operations and processes, dielectric measurements, ceramic microscopy, physical geology, mineralogy, mineral dressing, petrology, physical metallurgy and metallography. Other laboratory facilities particularly kilns and furnaces are housed in the Ceramic Building next door. Important additional facilities for instruction and research are located in the Engineering Research Department's Ceramic and Metallurgical Research Laboratories. Here equipment and instrumentation are available for advanced work in high temperature technology, X-Ray diffraction, radiography, electron microscopy, and photomicrography.

DEPARTMENTAL STUDENT ACTIVITIES — — — — —

The Student Branches of the American Ceramic Society and the American Institute of Mining and Metallurgical Engineers (Rockhound Society) through their monthly meetings provide an effective medium for the professional growth of the student engineers. Programs include presentation of student papers, guest speakers and social contact between student and staff. Participation acquaints the student with parliamentary

and organizational procedures which are of great importance to professional, industrial, and civic life. Students are encouraged to attend Southeastern Section and National meetings of their respective societies. Keramos, the oldest professional engineering fraternity, has an active chapter on the campus. This fraternity is dedicated to the promotion of scholarship, mental achievement and general service to ceramic engineering students. It carries on various projects, one of which is the "Big Brother Project" to help freshmen in their orientation in college life.

CERAMIC ENGINEERING

The undergraduate curriculum in Ceramic Engineering is the result of years of study and development and is designed to meet the challenge of modern civilization. The program of study encompasses a thorough grounding in the basic physical sciences and the fundamental disciplines of engineering. Processes and operations peculiar to ceramic engineering are developed from the viewpoint of interpreting and applying the underlying scientific laws, rather than empirical methods of procedure. The phenomena studied include crushing, grinding, classification and packing of particles, rheological properties of plastic masses, suspensions and slurries, drying of solids, combustion, heat transfer, and high temperature chemical reactions. Production at lowest possible cost and improvement of processes and operations are emphasized throughout the program. Attitudes of research, experimentation, and originality of thought are fostered.

Because the Department is dedicated to training young men for leadership, and because of the recognition that responsible leadership should be vested in thinking, well-oriented men, the curriculum includes a planned program of social and humanistic studies. This program is designed to prepare the student for an understanding and appreciation of his responsibilities to society, his profession, and himself, to the end that he will lead a fuller, more productive and satisfying life.

OPPORTUNITIES

Professional training in ceramic engineering provides opportunities for employment in an industry producing a wide variety of essential products including glass in all its forms, enamels and protective coatings for metals, structural clay products such as brick and tile, refractories for furnace linings, thermal insulators, electrical insulators, dielectric components, Portland cement, gypsum products, abrasives, dinnerware, art pottery, bath fixtures and hundreds of other items. In addition to these "end products" ceramics are finding ever increasing applications in the electronic, aviation, guided missile, automotive and atomic energy fields. A continuing shortage of qualified personnel in ceramic engineering has resulted in far more employment offers than there are graduates. Initial employment upon graduation may be in the fields of research and development, in plant operation and control, and in technical sales and service. Such employment may lead to positions as directors of research, consulting and design engineers, sales directors, plant superintendents, production managers and finally administrative officers.

GEOLOGICAL ENGINEERING

Geological engineering is a technical field in which geological facts are combined with engineering techniques for the solution of problems concerned mainly with mineral raw material supply and with engineering projects. Many major engineering undertakings, such as construction of large dams and reservoirs, tunnels, and large buildings, depend for success in part on an exact knowledge of their geological setting. On the other hand, such geological problems as the economical development of mineral resources require the use of the precise methods of engineering. In the field of geological engineering, then, geology contributes

data concerning the constitution, structure, and history of the earth; engineering supplies quantitative, analytical methods whereby physical and chemical laws may be controlled for mankind's benefit. The Geological Engineering curriculum combines those fundamental disciplines regarded as basic to all engineering with training in the aspects of geology that are of most practical application to human affairs.

OPPORTUNITIES — — — — —

A graduate in this curriculum may follow one of two broad fields of engineering, either in the United States or in foreign countries: one, the application of geology to engineering work; the other, the application of geology in the mineral industries. Geological engineers are currently employed and in demand by oil companies and quarrying concerns; exploration companies; construction firms; railroads, public utilities, banks and insurance companies; iron, steel, and other metal producers; manufacturers using non-metallic mineral raw materials, as for ceramics, cement, and abrasives, municipal, state, and federal government agencies; schools, colleges, museums, and research institutes. The southeastern United States offers excellent opportunities for geological engineers. There is a growing need for the application of geological science to engineering construction in connection with highways, foundations, excavations, and in water supply problems. The mineral industry of the southeast has expanded substantially in the last decade; known deposits in the region, as yet only partially developed, include iron, nickel, copper, chromite, molybdenite, feldspar, mica, kaolin, cyanite, sillimanite, pyrophyllite, talc, barite, spodumene, sulphur (pyrite), coal, phosphate, granite, limestone, and marl.

METALLURGICAL ENGINEERING — — — — —

The undergraduate curriculum in metallurgical engineering is a standard four-year program designed to produce technically trained leaders for those industries and agencies associated with the development, production, and fabrication of metals and alloys. The major emphasis is on the application of the principles of physical and mechanical metallurgy to engineering problems encountered in these industries. Major sequence courses for the development of this emphasis are offered during the third and fourth years of the curriculum and are preceded by a well rounded program of basic and engineering sciences, and humanities. Because of this arrangement it is possible for a student to complete the first two years of his training at a suitably qualified liberal arts college and to transfer to North Carolina State College for the final two years. While such an arrangement is encouraged it is nevertheless advisable for the prospective transfer student to seek the guidance and counsel of the Engineering School Administration at the beginning of his college career, in order to minimize difficulties associated with the transfer of credits.

OPPORTUNITIES — — — — —

Opportunities open to graduates in metallurgical engineering are virtually unlimited. Each year the demand for men with metallurgical training becomes more urgent, and the number of positions presently available is several times greater than the number of graduates. A graduate metallurgical engineer may thus choose from a wide selection of companies, locations and types of work. Among the more important job opportunities open to metallurgical engineers are those in research and development of new alloys so desperately needed as materials of construction in the rapidly expanding fields of chemical, mechanical, aeronautical, and nuclear technology. With the rapid industrialization of the South and particularly the State of North Carolina, new opportunities are constantly developing for metallurgical engineers who will play a vital role in maintaining the forward progress of the State and region.

CURRICULUM IN CERAMIC ENGINEERING

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EC 205	The Economic Process	0	3
	ENG 205	Reading for Discovery	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	CH 215	Quantative Analysis	0	4
	MIM 201	Structure and Properties of Engineering Materials*	3	0
	MS 201, 202	Military Science II		
	or	or		
	AS 211, 212	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			18	19

* Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIM 201, and who can present acceptable electives in lieu of this course will be admitted as third year students in ceramic engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of electives permitted in the third year.

3	EM 343	Strength of Materials	0	2
	EM 341, 342	Engineering Mechanics A, B	2	2
	CH 531, 532	Physical Chemistry	3	3
	MIG 120	Physical Geology	3	0
	MIC 301, 302	Ceramic Operations I, II	4	3
	MIG 330	Mineralogy	3	0
	SS 301, 302	Contemporary Civilization	3	3
	MIC 312	Ceramic Process Principles I	0	4
		Electives	3	3
			21	20

Summer Requirement: Six weeks' industrial employment

4	EE 320	Electrical Engineering	0	4
	MIC 505	Research and Control Methods	0	3
	MIG 531	Optical Mineralogy	3	0
	MIC 413	Ceramic Process Principles II	4	0
	MIC 415, 416	Ceramic Engineering Resign	2	2
	MIC 420	Industrial Ceramics	3	0
	MIC 413	Senior Thesis	0	3
	MIC 425	Seminar	1	0
	SS 491	Contemporary Issues	3	0
		Humanities Elective	0	3
			3	3
			19	18

PROFESSIONAL STUDY IN CERAMIC ENGINEERING

A fifth, or professional, year of study is offered in Ceramic Engineering, as a continuation of the four-year undergraduate program. This professional year of study offers specialized advanced course work leading to the degree of Ceramic Engineer, and is especially designed for those planning a career in industrial production activities. Each program of study is designed to suit the needs of the individual student. The curriculum shown below is typical of these programs.

ENGINEERING

REGULATIONS COVERING PROFESSIONAL STUDY ARE SHOWN ON PAGES 132-133.

Typical Professional Program in Ceramic Engineering

			Credits	
5	MIC 507, 508	Advanced Ceramic Experiments	3	3
	MIC 511	Advanced Studies in Firing	3	0
	MIC 527	Refractories in Service	0	3
	IE 332	Motion and Time Study	0	4
	IE 408	Production Control	3	0
		Electives	6	5
			<hr/>	<hr/>
			15	15

CURRICULUM IN GEOLOGICAL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

2	EC 205	The Economic Process	0	3
	ENG 205	Reading for Discovery	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	CH 215	Quantitative Analysis	0	4
	MIG 120	Physical Geology*	3	0
	MS 201, 202	Military Science		
	or	or		
	AS 211, 212	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			18	19

* Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIG 120, and who can present acceptable electives in lieu of this course will be admitted as third year students in geological engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of electives permitted in the third year.

3	EM 341, 342	Mechanics	2	2
	EM 343	Strength of Materials	0	2
	CH 531, 532	Physical Chemistry	3	3
	CE 201	Surveying	3	0
	MIG 222	Historical Geology	3	0
	MIG 372	Elements of Mining Engineering	0	4
	MIG 330	Mineralogy	3	0
	MIG 442	Petrology	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives	3	3
			<hr/>	<hr/>
			20	20

Summer Requirements: Six weeks' industrial employment.
Or summer camp in Geological Engineering

4	EE 320	Electrical Engineering	4	0
	EM 430	Fluid Mechanics	0	2
	MIG 351	Structural Geology	3	0
	MIG 531	Optical Mineralogy	3	0
	MIG 411, 412	Economic Geology	3	3
	MIG 452	Sedimentation and Stratigraphy	3	0

ENGINEERING

		Credits	
MIG 462	Geological Surveying	0	3
MIG 481, 482	Senior Seminar	1	1
SS 491	Contemporary Issues	3	0
	Humanities Elective	0	3
	Electives	3	3
		<hr/>	<hr/>
		20	18

— — — — — PROFESSIONAL STUDY IN GEOLOGICAL ENGINEERING

A fifth, or professional, year of study is offered in Geological Engineering, as a continuation of the fourth-year undergraduate program. This fifth year of study offers specialized and advanced work leading to the degree of Geological Engineer.

Regulations Governing Professional Study are Shown on Pages 132-133.

Typical Professional Program in Geological Engineering

5	MIG 461	Engineering Geology	3	0
	MIG 522	Petroleum Geology	0	3
	MIG 552	Geophysics	0	3
	MIG 571, 572	Mining and Mineral Dressing	3	3
	MIG 581	Geomorphology	3	0
	MIG 611, 612	Advanced Economic Geology	3	3
		Electives	3	3
			<hr/>	<hr/>
			15	15

— — — — — CURRICULUM IN METALLURGICAL ENGINEERING

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

2	EC 205	The Economic Process	0	3
	ENG 205	Reading for Discovery	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Studies	5	5
	CH 215	Quantitative Analysis	0	4
	MIM 201	Structure and Properties of Engineering Materials*	3	0
	MS 201, 202	Military Science		
	or	or		
	AS 211, 212	Air Science	2	2
	PR 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			18	19

* Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIM 201, and who can present acceptable electives in lieu of this course will be admitted as third year students in metallurgical engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of electives permitted in the third year.

3	EM 341, 342	Engineering Mechanics	2	2
	EM 343	Strength of Materials	0	2
	MIG 120	Physical Geology	3	0
	CH 531, 532	Physical Chemistry	3	3
	IE 217, 218	Machine Tools—Metal Forming	1	1
	MIM 331, 332	Physical Metallurgy I, II	3	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives	3	6
			<hr/>	<hr/>
			18	20

ENGINEERING

Summer Employment: Six weeks' industrial employment.

4			Credits	
	EE 320	Electrical Engineering	0	4
	EM 430	Fluid Mechanics	2	0
	MIG 330	Mineralogy	3	0
	MIM 401, 432	Metallurgical Operations	3	3
	MIM 431, 432	Metallurgy	4	4
	MIM 451	Seminar	0	1
	SS 491	Contemporary Issues	3	0
		Humanities Elective	0	3
		Electives	5	5
			<hr/>	<hr/>
			20	20

PROFESSIONAL STUDY IN METALLURGICAL ENGINEERING — — —

A fifth, or professional, year of study is offered in Metallurgical Engineering, as a continuation of the four-year undergraduate program. This professional year of study offers specialized and advanced course work leading to the degree of Metallurgical Engineer, and is especially designed for those planning a career in industrial production activities. Each program of study is designed to suit the needs of the individual student. The curriculum shown below is typical of these programs.

REGULATIONS COVERING PROFESSIONAL STUDY ARE SHOWN ON PAGES 132-133.

Typical Professional Program in Metallurgical Engineering

		Credits	
MIM 521, 522	Advanced Physical Metallurgy	3	3
MIM 523, 524	Metallurgical Factors in Design	2	2
MIM 445, 446	Experimental Engineering	3	3
PY 407	Modern Physics	3	0
CHE 502	Electrochemical Engineering	0	3
ME 502	Heat Transfer	3	0
ME 515	Experimental Stress Analysis	0	3
MIM 651	Metallurgical Engineering Seminar	1	1
		<hr/>	<hr/>
		15	15

THE PHYSICS DEPARTMENT — — — — —

Professor CLIFFORD K. BECK, *Head of the Department and Director of Nuclear Reactor*

Professor and Graduate Administrator in the Department, A. C. MENIUS, JR.

Professor and Deputy Director of the Nuclear Reactor, R. L. MURRAY

Professors F. W. LANCASTER, J. S. MEARES, R. H. SNYDER, NEWTON UNDERWOOD

Associate Professors R. F. STAINBACK, ARTHUR WALTNER, W. D. WHITEHEAD

Assistant Professors J. H. BARRETT, E. J. BROWN, J. T. LYNN

Research Assistant RACHEL HACKNEY, H. A. LAMONDS, J. G. LUNDHOLM, JR., C. W. TERRELL

Instructors A. B. ALTER, F. R. CROWNFIELD, CLYDE B. FULMER, MINNIE C. HARRIS

— — — — — OBJECTIVES

Physics is one of the basic sciences upon which Agriculture, Engineering, and other branches of technology are based. The Department, therefore, offers several general physics courses adapted to the needs of other departments and a number of advanced courses in specialized fields of physics available as electives to graduates and undergraduates of all departments.

In addition to its program of service instruction in support of and in cooperation with programs of training in other technical fields, the Physics Department offers under its own guidance coherent instructional programs in two applied fields: Engineering Physics and Nuclear Engineering. Curricula have been developed in each of these fields at both the undergraduate and graduate levels.

Organization of an integral course of study in Nuclear Engineering, first accomplished in 1950, represented a pioneering educational venture into this new area of engineering experience.

— — — — — CURRICULA

ENGINEERING PHYSICS

The curricula in Engineering Physics are designed to provide a student with foundation training in and a working knowledge of both general physics and basic engineering. It is anticipated that such a program will develop men with the ability to use the skills and methods of engineering in applying the principles of physics in the pursuit of research objectives or in the practical solution of engineering problems. A combination of both theoretical and applied courses is specified, together with the usual requirements in humanities (at the undergraduate level), and some latitude in program orientation to particular interests through the inclusion of course electives.

There is a rapidly growing demand for men with practical skill and strong scientific foundation to pursue the multiplying problems in the borderline fields between engineering and pure physics. The Engineering Physics program is designed to meet this need.

NUCLEAR ENGINEERING

The Nuclear Engineering Curricula are offered in response to the rapidly growing demand of industry and research organizations for engineers equipped with the basic knowledge and technology of radioactivity and nuclear processes. The field of nuclear engineering practice is so broad that practically all branches of science and engineering are involved; hence one could not hope in four or even five years to become proficient in all phases. The general curriculum is planned, therefore, to include a basic core of required courses and a number of technical elective courses which are to be scheduled, with the assistance of an adviser, in one or two of several general fields of interest. In the sophomore or junior year the student in Nuclear Engineering selects, according to his interest, the engineering field in which he wishes broader training: Chemical, Electrical, Mechanical, etc. The technical elective courses relating to this field of interest are then scheduled.

A Bachelor of Nuclear Engineering degree is awarded upon satisfactory completion of the prescribed four-year curriculum. For those desiring further training, graduate programs terminating in a Master's or a Doctor's degree in Nuclear Engineering are offered.

ENGINEERING

CURRICULUM IN ENGINEERING PHYSICS — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EM 341	Mechanics A (Statics)	0	2
		Humanities	3	3
	IE 227, 228	Machine Tool Laboratory	1	1
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
		Technical Electives	3	0
			19	18
3	EE 331, 332	Principles of Electrical Engineering	4	4
	EM 342, 343	Mechanics B (Dynamics);		
		Strength of Materials A	2	2
	MA 401	Differential Equations	3	0
	PY 401, 402	Intermediate Physics I	4	4
	PY 407	Introduction to Modern Physics	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			19	19
4	EM 430	Fluid Mechanics	0	2
	ME 301	Engineering Thermodynamics I	3	0
	PY 403, 404	Intermediate Physics II	4	4
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Technical Electives	6	8
		Electives, Military or Air Science	3	3
			19	20

CURRICULUM IN NUCLEAR ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

2	EM 341	Engineering Mechanics A (Statics)	0	2
		Humanities	3	3
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
		Technical Electives	3	0
			18	17
3	EM 342	Engineering Mechanics B (Dynamics)	2	0
	EM 343	Strength of Materials A	2	0
	MA 401	Differential Equations	3	0
		(Advanced Calculus or Advanced		
		Differential Equations)	0	3

		Credits	
ME 301*	Engineering Thermodynamics I	0	3
PY 401, 402	Intermediate Physics I or		
PY 403, 404	Intermediate Physics II	4	4
PY 407	Introduction to Modern Physics	3	0
PY 410	Nuclear Physics I	0	4
SS 302	Contemporary Civilization	3	3
	Electives, Military or Air Science	3	3
		<hr/> 20	<hr/> 20

4	EE 320	Elements of Electrical Engineering	4	0
	EM 430	Fluid Mechanics	0	2
	PY 419	Introduction to Nuclear Engineering	2	0
	PY 518	Radiation Hazard and Protection	3	0
	PY 520	Physical Technology in Radioactivity	0	3
	PY 530	Elementary Nuclear Reactor Theory	0	3
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Technical Electives	5	6
		Electives, Military or Air Science	3	3
			<hr/> 20	<hr/> 20

— — — — — GRADUATE STUDY

MASTER OF SCIENCE

The Master of Science program in Engineering Physics and in Nuclear Engineering is so designated that a fully prepared student should be able to qualify for the degree in one year. "Full preparation" is interpreted to mean possession of a working knowledge of the material specified in the undergraduate program listed above.

Where students transfer into Engineering Physics after an undergraduate program in pure science or engineering, which, incidentally, is frequently done and has been found to result in commendable cumulative training experience, an extra term and sometimes two of preparatory work is required.

— — CURRICULUM FOR MASTER OF SCIENCE IN ENGINEERING PHYSICS

		Credits
	Mathematics (above 400 level)	6
PY 601, 602	Advanced General Physics	6
PY 670	Seminar	2
PY 690	Research	4
	Electives**	12
		<hr/> 30

* CHE 415, Chemical Engineering Thermodynamics, may be substituted.

** The elective courses should form a coherent pattern. At least a semester hour must be selected in one or two closely related fields of engineering or engineering and mathematics.

ENGINEERING

CURRICULUM FOR MASTER OF SCIENCE IN NUCLEAR ENGINEERING

Mathematics (above 400 level)	6	
At least three of the following courses	9	
	Credits	
PY 518	Radiation Hazard and Protection	
PY 610	Advanced Nuclear Physics	
PY 611	Quantum Mechanics	
PY 619	Heterogeneous Reactor Design	
PY 630	Homogeneous Reactor Design	
PY 670	Seminar	2
PY 690	Research	4
	Electives*	9
		<hr/> 20

* Of the technical elective courses 6 semester hours must be selected to form a coherent sequence in a selected field of engineering. In general, selection is made from such fields of application as:

- Mechanical-Metallurgical
- Heat Transfer-Power Generation
- Chemistry-Chemical Engineering
- Instrumentation, Control Mechanisms
- Theoretical: Mathematics, Reactor Design
- Biological Sciences, Biochemistry, Physics

DOCTOR OF PHILOSOPHY

In the spring of 1950 the Graduate School of the Consolidated University of North Carolina granted authority to the Physics Department of State College to enroll students for training to the doctorate level. In addition to the resources and facilities of the Physics Department, those of other departments at State College and of the Physics and Mathematics Departments of the University of North Carolina at Chapel Hill are available to these advanced students as their particular programs may require. Facilities are most extensive for work in the general fields of applied nuclear physics and solid state physics. The usual rules and regulations of the Graduate School apply to students enrolled in the doctorate program in Physics. For general regulations, the Graduate School Catalog should be consulted.

THE PROFESSIONAL PROGRAM IN ENGINEERING — —

The School of Engineering offers fifth-year professional curricula leading to the degrees Ceramic Engineer, Civil Engineer, Chemical Engineer, Geological Engineer, Industrial Engineer and Mechanical Engineer. These curricula are tailor-made to fit the particular needs of each student with a view that upon completion of a program the student will be prepared to pursue a professional career in engineering.

It is the intent of the fifth-year program to emphasize professional course work rather than research. To this end, a curriculum is comprised of 30 semester credits of course work requiring of the student a minimum of one academic year in residence; neither a thesis nor a reading knowledge of a foreign language is required. Samples of curricula that met the requirements of the fifth-year program may be found under the appropriate Departmental curricula. These curricula are to be considered illustrative; the actual programs of study will be especially designed to fit the needs of the individual student.

ADMISSION — — — — —

Applicants who hold the bachelor's degree in engineering from recognized colleges will be admitted to the professional program of the School of Engineering upon presentation of official credentials. For unconditional admission, these credentials must show the completion, with a minimum average grade of 25 quality points (C+), of an amount of undergraduate work in the proposed field of professional study corre-

spondence to that normally required for a bachelor's degree in that field.

Admission on a professional basis may be granted applicants who do not meet the formal requirements. In case of insufficient preparation, prerequisite courses will be prescribed in addition to the normal fifth-year course requirements.

Applications for admission, accompanied by full credentials in the form of transcripts of academic records, should be filed in the office of the Dean of Engineering at least thirty days in advance of the semester in which admission is sought.

— — — — — GENERAL REGULATIONS

The following regulations of the School of Engineering will be observed:

1. An undergraduate enrolled at North Carolina State College, who plans to undertake a professional program and who has fulfilled all requirements for the bachelor's degree except one or two courses, may be permitted to enroll in certain courses and later obtain credit toward the professional degree provided the student gives notice of his purpose to the Dean of the School of Engineering. The maximum credit to be obtained in this way is 6 semester course credits.

2. Credit for professional work to be applied toward the requirements for the professional degree, not to exceed 6 semester credits, may be transferred to North Carolina State College from recognized institutions of university grade offering advanced work in engineering and related fields. Such a transfer of credit must be recommended by the head of the department in which the student does his major work and it must be approved by the Dean of Engineering.

3. Fifth-year students are classified as post-baccalaureate students and are subject to rules and regulations as established and administered by the Dean of Engineering.

4. Grades for each completed course are reported to the Dean of Engineering and to the Office of Registration. A minimum grade of C must be made in each course to obtain credit. A quality point average of 2.5 (C+) in all course work must be attained to satisfy requirements for a professional degree.

5. Work completed more than six years prior to the date on which the professional degree is to be granted may not be used as credit toward the professional degree, unless approved by the head of the department concerned and the Dean of Engineering.

6. Each fifth-year student will be assigned to a committee consisting of his department head and the professor in charge of the work in which he is majoring. The function of this committee is to assist the student in preparing a program of study and to counsel him in his academic work. The student will be required, with the assistance of his committee, to prepare a complete plan of study before mid-semester of his first semester in residence. This program of study is subject to the approval of the Dean of Engineering.

SCHOOL OF FORESTRY

RICHARD J. PRESTON, DEAN

Professor J. V. HOFFMANN, Director Emeritus and Manager North Carolina Forestry Foundation

Professors J. S. BETHEL, R. C. BRYANT, R. M. CARTER, C. E. LIBBY, T. E. MAKI, G. K. SLOCUM, L. WYMAN

Professor Emeritus L. WYMAN

Associate Professor W. D. MILLER

Assistant Professors A. C. BAREFOOT, C. A. HART, R. G. HITCHINGS, B. J. ZOBEL

Special Lecturer H. O. COOK

Geneticist R. L. McELWEE

INTRODUCTORY — — — — —

While forestry has been recognized and practiced for centuries in Europe, this profession is relatively new in the United States, dating from about the beginning of the present century. During the period of rapid expansion and development of our country the forests were badly neglected and abused. Now, however, with our timber supplies depleted and the value of timber products increasing, sound forest practices have been accepted as economically desirable and feasible. Increasing the productivity and quality of our forests is basic to the welfare of the Southeast. The importance of the forest resource in the economy of North Carolina is brought out by the fact that sixty-two per cent of the land area is in forest, with wood products industries ranking next to textiles as a source of industrial employment.

Through a program which offers a broad training in the physical and biological sciences as well as a sound cultural background the School of Forestry prepares students for service in the two major professional fields of forest management and wood utilization.

CURRICULA — — — — —

The School offers undergraduate instruction leading to the degree of Bachelor of Science in the two major professional fields of forest management and wood utilization, the latter including Wood Technology, Pulp and Paper Technology, and Wood Products Merchandising. All curricula have a common freshman year thus enabling the student to postpone selection of a major field until he has had an opportunity to become acquainted with its scope and possibilities.

Forest Management deals with all phases of the management of wild lands and includes such related subjects as water-shed protection, wildlife management, and recreation. In order that the student may be adequately prepared for work of such diverse nature, the curriculum provides training in such subjects as silviculture, timber estimating, management, fire prevention and control, forest pathology, insect control, forest soils, economics, and other aspects of land use.

The course of study in Wood Technology, which is concerned with the technical aspects of utilization, includes training in all types of wood using and wood manufacturing industries. It incorporates technical and practical principles of logging, milling, seasoning, gluing, preserving, finishing, fabricating, and machining.

Pulp and Paper Technology trains men for work in pulp and paper plants. Students are given thorough training in chemistry, mathematics, physics, wood structure and properties, pulping processes, and engineering subjects related to pulp and paper manufacturing.

Wood Products Merchandising covers the distribution, selling, and use of lumber and of products made from wood. This curriculum combines a broad background of business administration with a sound knowledge of the product being handled.

— — — — — **DEGREES**

The Bachelor of Science degree is conferred upon completion of any of the four-year curricula in the areas mentioned above.

Professional preparation beyond the four-year curricula is desirable, and qualified students are urged to plan a five-year program leading to the Master's degree. For students desiring a thorough professional background, the School offers the degree of Master of Forestry or of Master of Wood Technology; the degree of Master of Science in these two fields is offered for those desiring specialization in the fields of scientific research.

The degree of Doctor of Philosophy is offered in several fields in forestry.

Further information regarding graduate study is contained in the Graduate School Catalog which may be obtained from the Dean of the Graduate School.

— — — — — **FACILITIES AND PROGRAMS**

The School of Forestry is housed in Kilgore Hall on the west side of the campus. This new forestry building provides outstanding classroom and laboratory facilities.

WOOD PRODUCTS LABORATORY

The Wood Products Laboratory, housed on the first floor of the new Forestry Building and in separate buildings on Western Boulevard, contains general wood shop equipment, a veneer lathe and clipper, glue mixers and spreaders, tape machine and hot presses, testing equipment, preservation tanks, a modern dry kiln, and two portable sawmills. This equipment, available for teaching, student experience and research, provides an unexcelled laboratory for practical production processing of dimension stock, furniture, plywood and other wood products.

PULP AND PAPER LABORATORY

The recently completed Pulp and Paper Laboratory located on Western Boulevard provides modern offices and classrooms as well as laboratories for pulping, paper making, paper and pulp testing, coloring, and fiber analysis.

SCHOOL FORESTS

The School of Forestry, with more than 82,000 acres of forest land available and three permanent field camps, has facilities unexcelled in many respects for field instruction and research.

The Hofmann Forest, owned and operated by the North Carolina Forestry Foundation for the benefit of the School of Forestry, consists of approximately 78,000 acres located in Jones and Onslow counties in the southeastern portion of the state. Pond and loblolly pine together with hardwood and cypress swamps characterize this tract. Part of the spring semester of the Senior year is spent in the permanent camp located in this forest.

The George Watts Hill Demonstration Forest is a tract of 1,500 acres located sixteen miles north of Durham. This typically piedmont forest of rolling terrain contains stands of loblolly, shortleaf and Virginia pines along with numerous hardwoods. The permanent summer camp for sophomores is located in this area.

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The Wayah Recreational Area in the North Carolina National Forest near Franklin is located in a typical mountain forest. Facilities at this area have been leased from the Government. Portions of the spring semester of the Senior year and of the sophomore summer camp are held in permanent quarters on this mountain tract.

The Richland Creek Farm Forest of 300 acres located four miles northwest of the campus is being developed into a model farm forest and is used for field instruction near the campus.

The Hope Valley Forest is a 1700-acre tract located five miles southeast of Chapel Hill and is used for instruction and research.

The School nursery, located on the campus, is fully equipped for instruction purposes and the production of planting stock.

FIELD INSTRUCTION AND EXPERIENCE

All students are required to present a minimum of one summer of acceptable work experience in order to meet the graduation requirements. Students are required to consult with their advisers regarding the types of employment that will be acceptable.

The ten-week Sophomore summer camp is a general requirement for students in the Forest Management, Wood Technology, and Wood Products Merchandising curricula. Students in the Forestry Management curriculum are also required to attend camp during the last half of the spring semester of the Senior year. Permanent, well-equipped camps are maintained in coastal, piedmont, and mountain forests. A "C" average is required for admission to these camps.

Additional field instruction and scheduled trips to representative wood industries are required of all students as a part of their class assignments. To cover the costs of this off-campus training, all students enrolled in the School of Forestry pay a field laboratory fee of \$10.00 each year at the time they first register for the school year. Room rent of \$20.00 is charged for both the summer and spring camps.

OPPORTUNITIES — — — — —

A wide and rapidly expanding field of employment possibilities is available in the Southeast to young men trained in forestry. Until recent years most job opportunities were with government agencies in managing public forests, and this still constitutes a major source of employment. These agencies include state and federal forest services, extension services, and other groups such as the Soil Conservation Service and the Tennessee Valley Authority.

In recent years job opportunities with private industries have expanded greatly. Increasing numbers of technically trained young men are entering a wide variety of professional positions in the fields of forest land management, watershed management, logging, sawmilling, veneer and plywood manufacturing, pulp and paper making, kiln drying, wood preservation, and the manufacture of wood products such as furniture, dimension stock, and various prefabricated items.

The merchandising of lumber and lumber products offers numerous opportunities for students qualified for sales, business administration, or small building construction. Sawmills and lumber yards, plywood and paper manufacturers, and flooring, wallboard, and other forest products plants need trained men.

Exceptional students will find opportunities for employment in research or teaching. This type of work ordinarily requires a graduate degree. There has been an increasing demand for well-trained woodlands managers and wood technologists, as well as for research workers in government experiment stations and laboratories.

Over eighty per cent of the graduates of the School of Forestry are now employed in some field of forest or wood products work. The few students who have not followed the forestry profession have found their college education sufficiently broad to provide a sound basis for a wide variety of work.

— — — — — **SHORT COURSES**

In cooperation with the College Extension Division and other departments of State College, short courses are offered to personnel in wood-using industries. These courses vary from a few days to a few weeks in length and cover such subjects as aerial photo interpretation, lumber merchandising, seasoning and kiln drying, lumber grading, gluing, wood preservation, and quality control and wood finishing. Additional courses in other fields of forestry will be offered as the need arises. In addition to the faculty of the School of Forestry, experts from the trade associations, federal laboratories, and private industry are called in to furnish instruction. Class and laboratory facilities of State College are available for these courses. These vocational courses provide to men in industry an opportunity to keep abreast of modern developments in methods and equipment.

— — — — — **FELLOWSHIPS, SCHOLARSHIPS, AND LOAN FUNDS**

A number of undergraduate scholarships, research assistantships, and teaching fellowships are available to qualified students. Students interested in applying should write to the Dean of the School of Forestry.

The Hofmann Loan Fund was established by alumni of the School of Forestry to honor Dr. J. V. Hofmann, the first Director of the Division. Loans to worthy students are available through the Student Loan Fund established by the State College Alumni Association.

Many students help pay their expenses through part-time work at the College or in town. The Self-Help Secretary of the College Y.M.C.A. assists in locating employment.

— — — — — **COURSES OF STUDY IN THE SCHOOL OF FORESTRY****FOR ALL FORESTRY CURRICULA**

			Credits	
1	BO 101, 102	General Botany	3	3
	CH 101, 103	General Inorganic Chemistry; General		
	or	and Qualitative Chemistry; or		
	CH 203	General and Organic Chemistry	4	4
	ENG 111, 112	Composition	3	3
	FOR 101, 102	Introduction to Forestry	2	2
	MA 111, 112	Algebra and Trigonometry; Analytic		
		Geometry and		
		Calculus A	1	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			19	19

* Students with a mathematics deficiency or low placement test score will start chemistry during the spring semester and will take a science course in place of chemistry during the fall semester.
Students in Forest Management, or Wood Products Merchandising will take CH 203, Organic Chemistry, the second semester; students in Pulp and Paper Technology or Wood Technology will take CH 103, Qualitative Analysis.

— — — — — **FOREST MANAGEMENT**

Professor T. E. MAKI, In Charge

— — — — — **OBJECTIVES**

Forest Management is the application of sound forestry principles in the woods. The Forest Manager considers individual trees, stands, types, and the entire forest. It is necessary, then, that he have a knowledge of

FORESTRY

the biological relationships within the forest and of the methods of controlling and using these relationships. He must have also a knowledge of the economic factors concerned in the business side of forestry and of the methods of measuring forest products and forest stands.

CURRICULUM - - - - -

The curriculum in Forest Management is organized to provide a broad basic training and also to permit limited specialization. To accomplish the latter goal, the curriculum includes 18 elective credits. At the beginning of his junior year, the student selects one of the five areas of specialization listed and chooses courses listed under this field for his elective credits.

The curriculum leads to the degree of Bachelor of Science in Forest Management. A minimum of 157 credits is required for graduation.

OPPORTUNITIES - - - - -

Students who complete the curriculum are trained for positions with pulp companies, lumber companies, and other private landowners; federal and state forest services; agricultural extension; and for private enterprise as consultants, forest landowners, or sawmill operators.

CURRICULUM IN FOREST MANAGEMENT - - - - -

SUMMER CAMP

2			Credits	
	SOI 200	Soils	0	4
	BO 211, 212	Dendrology	2	2
	CE 217	Forestry Surveying	0	4
	EC 201	Economics	3	0
	FOR 201	Wood Structures and Properties	3	0
	PY 211	General Physics	4	0
		Social Science Electives	3	3
	ZO 102	General Zoology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			18	19

SUMMER CAMP

FOR S204	Silviculture	2
FOR S214	Dendrology	2
FOR S224	Forest Mapping	2
FOR S264	Protection and Utilization	2
FOR S274	Mensuration	2
		10

3				
	BO 421	Plant Physiology	4	0
	BO 441	Plant Ecology	3	0
	ENG 321	Scientific Writing and English Elective	3	3
	ENT 301	Introduction to Forest Insects	3	0
	FOR 361	Silvics	0	3
	FOR 372	Mensuration	3	0
	PP 318	Diseases of Forest Trees	0	3
		Social Science Elective	0	3
		Electives	3	6
			19	18

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			Credits	
4	FOR 404	Management Plans (Camp)	0	3
	FOR 405	Forest Inventory (Camp)	0	2
	FOR 406	Forest Industries (Camp)	0	2
	FOR 407	Field Silviculture (Camp)	0	2
	FOR 423	Logging and Milling (8 Weeks)	0	3
	FOR 511	Silviculture	3	0
	FOR 512	Forest Economics	3	0
	FOR 531	Forest Management (8 Weeks)	0	3
	FOR 553	Forest Photogrammetry (8 Weeks)	0	2
	ST 311	Introduction to Statistics	3	0
		Electives	9	0
			<hr/>	<hr/>
			18	17

— — — — — **FOREST MANAGEMENT, FIELDS OF SPECIALIZATION**

A student should select one of the following fields of specialization and choose elective courses from those listed under each field.

GENERAL FORESTRY			Credits	
FOR 422	Forest Products	3	0	
FOR 452	Forest Grazing	2	0	
FOR 462	Artificial Forestation	0	2	
FOR 472	Forest Policy and Administration	2	0	
FOR 501	Forest Valuation	3	0	
GEE 120	Physical Geology	3	or	3
RS 301	Sociology of Rural Life	3	or	3
ZO 312	Game Management	3		0

UTILIZATION

FOR 303	Wood-Moisture Relations	0	2	
FOR 401	Wood Preservation	0	2	
FOR 421	Log and Lumber Grades and Specifications	0	2	
FOR 433	Gluing and Plywood	3	0	
FOR 441	Mechanical Properties of Wood	3	0	
FOR 442	Furniture Construction and Assembly	3	0	
FOR 443	Wood Finishing	0	3	
FOR 481	Pulping Processes and Products	2	0	

FOREST WILDLIFE MANAGEMENT

FOR 452	Forest Grazing	2	0	
ZO 101	General Zoology	3	or	3
ZO 252	Ornithology	0	3	
ZO 301	Animal Physiology	3	or	3
ZO 521	Limnology	3	0	
ZO 522	Animal Ecology	0	3	
ZO 544	Mammology	0	3	
ZO 551, 552	Wildlife Management	3	3	

FOREST NURSERY PRACTICE

AGE 321	Irrigation, Drainage & Terracing	4	0	
SOI 341	Soil Fertility & Management	0	4	
FC 414	Weeds and Their Control	0	3	
BO 412	General Bacteriology	4	or	4

FORESTRY

BO 532, 533	Advanced Plant Physiology	2	2
EC 401, 402	Principles of Accounting	3	3
ENT 571	Forest Entomology	3	0
GN 411	Principles of Genetics	3	or 3
HRT 301	Plant Propagation	3	or 3
HRT 311	Nursery Practice	3	0
HRT 481	Breeding of Horticulture Plants	3	0

PARKS AND RECREATION

BO 203	Introduction to Systematic Botany	0	3
GEE 120	Physical Geology	3	or 3
PSY 200	Introduction to Psychology	3	or 3
RS 301	Sociology of Rural Life	3	or 3
SOC 202	Man and Society (General Sociology)	3	or 3
ZO 101	General Zoology	3	or 3
ZO 252	Ornithology	0	3
ZO 544	Mammalogy	0	3

GRADUATE OR RESEARCH

BO 203	Introduction to Systematic Botany	0	3
CH 103	General and Qualitative Analysis	4	or 4
CH 215	Quantitative Chemistry	4	or 4
MA 211, 212	Analytic Geometry and Calculus B, C	3	3
ML	Foreign Language	3	3
PY 212	General Physics	3	3

WOOD TECHNOLOGY — — — — —

Professor R. M. CARTER, In Charge

CURRICULUM — — — — —

The Wood Technology Curriculum trains men for many assignments in manufacturing wood products. It involves a basic knowledge of the sciences combined with business economics. Experience in wood manufacturing methods is gained by student operation of modern production equipment in the Wood Products Laboratory. In addition, all students graduating from this curriculum must have a minimum of one summer's acceptable work experience.

An opportunity for student selection of courses to meet special interests is provided through 26 elective credits. At the beginning of the Junior year, each student selects one of the three listed fields of specialization and chooses for his elective credits courses listed under this field.

This curriculum leads to the degree of Bachelor of Science in Wood Technology. A minimum of 158 credits is required for graduation.

OPPORTUNITIES — — — — —

A career with wood industries offers a variety of opportunities for young men trained in wood properties, manufacturing operations, and business methods. The application of new processes and materials in the conversion of timber into the thousands of wood products has created a demand for technically trained men. Companies manufacturing lumber, veneer and plywood, hardwood dimension stock, furniture, millwork, flooring, pianos, caskets, wood turnings, adhesives, preservatives, finishing materials and composition boards are types of industries interested in employing graduates.

CURRICULUM IN WOOD TECHNOLOGY

			Credits	
2	CH 203	Organic Chemistry	0	3
	EC 201	Economics	3	0
	FOR 201	Wood Structure and Properties	3	0
	FOR 303	Wood-Moisture Relations	0	3
	IE 224	Wood Working Equipment	0	3
	MA 211, 212	Analytic Geometry and Calculus B, C	3	3
	ME 101	Engineering Graphics	2	0
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			18	19

SUMMER CAMP

S*	FOR S204	Silviculture		2
	FOR S214	Dendrology		2
	FOR S224	Forest Mapping		2
	FOR S264	Protection and Utilization		2
	FOR S274	Mensuration		2
				<hr/>
				10

3	ENG 231	Basic Speaking Skills	0	3
	FOR 421	Log and Lumber Grades and Specifications	0	2
	FOR 423	Logging and Milling	3	0
	FOR 433	Gluing and Plywood	3	0
	FOR 441	Mechanical Properties of Wood	3	0
	ST 361	Statistics and Laboratory	0	3
		Social Science Electives	3	3
		Electives	6	8
			<hr/>	<hr/>
			18	19

4		English Elective	0	3
	FOR 401	Wood Preservation	0	2
	FOR 402	Foundations of Forest Management	2	0
	FOR 442	Furniture Construction and Assembly	3	0
	FOR 443	Wood Finishing	0	3
	FOR 512	Forest Economics	3	0
	FOR 533	Advanced Wood Structure and		
	FOR 563	Identification	2	0
		Quality Control in Wood Product		
		Manufacture	3	0
		Social Science Elective	0	3
		Electives	6	6
			<hr/>	<hr/>
			19	17

* Students with comparable experience, upon faculty approval, may substitute one additional summer's work experience for Summer Camp. After completion of 12 weeks of plant experience and presentation of a satisfactory report, three hours of academic credit will be granted.

FORESTRY

WOOD TECHNOLOGY, FIELDS OF SPECIALIZATION— — — — —

A student should select one of the following fields of specialization. Courses marked with an asterisk (*) are required. Technical electives should be scheduled from the remaining courses listed in the field of specialization.

HARDWOOD DIMENSION AND LUMBER		Credits	
EC 401, 402*	Principles of Accounting	3	3
EC 425	Industrial Management	3	0
EC 426	Personnel Management	0	3
EC 431	Labor Problems	2	or 2
EC 432	Industrial Relations	2	or 2
EC 504, 505*	Principles of Cost Accounting	3	3
EE 350	Electrical Applications in Wood Products	0	3
ENG 211*	Business Communications	3	or 3
FOR 372	Mensuration	0	3
FOR 422	Forest Products	3	0
FOR 431*	Dimension Stock Manufacturing	3	0
IE 322	Furniture Design and Construction	2	0
IE 332*	Motion and Time Study	0	4
IE 341	Furniture Planning, Layout and Design	3	0
IE 408*	Production Control	3	0
PSY 337	Industrial Psychology I	3	or 3

VENEER AND PLYWOOD

CHE 543	Technology of Plastics	0	3
CH 215	Quantitative Analysis	4	or 4
CH 425, 426	Organic Chemistry	3	3
EC 401*	Principles of Accounting	3	0
EC 426	Personnel Management	0	3
EC 504*	Principles of Cost Accounting	3	0
EE 350*	Electrical Applications in Wood Products	3	0
FOR 422	Forest Products	3	0
FOR 431	Dimension Stock Manufacturing	3	0
FOR 432	Merchandising Forest Products	2	0
FOR 481	Pulping Processes and Products	2	0
FOR 513*	Tropical Woods	0	2
IE 332	Motion and Time Study	0	4
IE 408	Production Control	3	0
IE 430	Job Evaluation and Wage Administration	0	4
ME 304*	Fundamentals of Heat Power	3	0
PSY 337	Industrial Psychology I	3	or 3

RESEARCH AND DEVELOPMENT

BO 410	Plant Histology and Microtechnique	3	0
CHE 301, 302	Elements of Chemical Engineering	3	3
CHE 543	Technology of Plastics	0	3
CH 351	Introductory Biochemistry	3	0
CH 425, 426	Organic Chemistry	3	3
EE 350	Electrical Applications in Wood Products	0	3
FOR 422	Forest Products	3	0
FOR 481	Pulping Processes and Products	2	0
FOR 513	Tropical Woods	0	2
FOR 542	Fiber Analysis	0	2
MA 401	Differential Equations	3	0
ME 304	Fundamentals of Heat Power	3	0
ML	Modern Languages	3	3
PY 401, 402	Intermediate Physics I	4	4
ST 515, 516	Experimental Statistics for Engineers	3	3

— PULP AND PAPER TECHNOLOGY

Professor C. E. LIBBY, In Charge

— CURRICULA

The pulp and paper technology curriculum offered by the School of Forestry at North Carolina State College is designed to train men for work in connection with the mechanical and chemical utilization of woods in the mills of pulp and paper companies. This curriculum developed in cooperation with the Departments of Chemistry and Chemical Engineering emphasizes the basic sciences essential to technical training in pulp and paper manufacture. It includes a thorough study of the wood pulping processes, chemical and by-product recovery, pulp bleaching and the various papermaking operations such as refining, sizing, filling, coloring, coating, and converting. Graduates are qualified for work in mill laboratory and quality control departments and for general plant production jobs. High scholarship students are urged to undertake graduate study after obtaining the Bachelor's degree, continuing either at this college or elsewhere in schools of papermaking, chemistry, or chemical engineering.

The program has received widespread interest and help from the pulp and paper industry. Fifty-eight of the major companies in the South are giving active support and have established the Reuben B. Robertson Distinguished Professorship as well as several scholarships. Two committees of pulp and paper executives have worked with the faculty in establishing an approved curriculum which has been designated by the Southern Regional Education Board as the four-year undergraduate program for the Southeast.

All students majoring in this curriculum are excused from the sophomore summer camp required of other forestry students, but are required to spend this summer working in a pulp or paper mill where the arrangements have been made by the College for such employment. Three hours of academic credit are granted the student after completion of 12 weeks of mill work and presentation of a satisfactory report covering this work experience. In addition to this minimum work requirement, students are urged to work in mills the remaining summers between academic years because of the great value of practical experience in this industry.

This curriculum leads to the degree of Bachelor of Science in Pulp and Paper Technology. A minimum of 157 credits is required for graduation.

— CURRICULUM IN PULP AND PAPER TECHNOLOGY

2			Credits	
	CH 215	Quantitative Analysis	4	0
	ENG 231	Basic Speaking Skills	0	3
	ENG 321	Scientific Writing	0	3
	FOR 201	Wood Structure and Properties	3	0
	MA 211, 212	Analytic Geometry and Calculus B, C	3	3
	ME 101, 102	Engineering Graphics I, II	2	2
	PY 211, 212	General Physics	1	4
	PSY 200	Introduction to General Psychology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			19	21

FORESTRY

			Credits	
S	FOR 591	Forestry Problems—Mill Experience	3	
3	CHE 301, 302	Elements of Chemical Engineering	3	3
	CH 425, 426	Organic Chemistry	3	3
	CH 531, 532	Physical Chemistry	3	3
	EE 350	Electrical Applications in Wood Products Manufacturing	0	3
	FOR 321, 322	Plup and Paper Technology	3	3
	FOR 533	Advanced Wood Structure and Identification	2	0
	FOR 542	Fiber Analysis	0	2
	ME 304	Fundamentals of Heat Power	3	0
		Electives	2	2
			—	—
			19	19
4	EC 201	Economics	3	0
	FOR 403	Paper Technology Laboratory	0	2
	FOR 411, 412	Pulp and Paper Mill Equipment	3	2
	FOR 413	Paper Testing Laboratory	2	0
	FOR 451	Paper Coloring Laboratory	0	2
	FOR 461	Paper Converting	1	0
	FOR 463	Plant Inspections	0	1
	FOR 471	Pulp Technology Laboratory	4	0
	FOR 482	Pulp and Paper Mill Management	0	2
	FOR 591, 592	Research Problem	1	4
	TC 511	Chemistry of Fibers	2	0
		General Electives	3	3
		Social Science Elective	0	3
			—	—
			19	19

WOOD PRODUCTS MERCHANDISING— — — — —

Professor R. M. CARTER, *In Charge*

CURRICULUM — — — — —

The distribution of lumber and other wood products and their proper utilization comprises the third curriculum of the wood technology-utilization branch of forestry. It is intended to fill the need for personnel trained both in business methods and in the basic characteristics and properties of the products and structures made out of wood. Methods of manufacturing, merchandising, business administration, preparation of plans and specifications, and a knowledge of other building materials form an integral part of the curriculum.

An opportunity for student selection of courses to meet special interests is provided through 24 elective credits. At the beginning of the Junior year each student selects one of the three fields of specialization listed and chooses for his elective credits courses listed under this field.

This curriculum leads to the degree of Bachelor of Science in Wood Products Merchandising. A minimum of 158 credits is required for graduation.

— OPPORTUNITIES

This curriculum trains men in light building construction, wood products manufacturing and merchandising for a wide variety of production and marketing positions with sawmills; retail and wholesale lumber yards, or brokerage firms; plywood and paper manufacturers; roofing felt, wallboard, flooring and furniture plants; and industries providing trade outlets for other wood products and associated materials.

— CURRICULUM IN WOOD PRODUCTS MERCHANDISING

			Credits	
2	CE 217	Forestry Surveying	0	4
	EC 201	Economics	3	0
	ENG 231	Basic Speaking Skills	3	0
	FOR 201	Wood Structure and Properties	3	0
	FOR 303	Wood Moisture Relations	0	3
	IE 224	Wood Working Equipment	0	3
	ME 101, 102	Engineering Graphics I, II	2	2
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			18	19

SUMMER CAMP

S*	FOR S204	Silviculture		2
	FOR S214	Dendrology		2
	FOR S224	Forest Mapping		2
	FOR S264	Protection and Utilization		2
	FOR S274	Mensuration		2
				10

3	EC 202	Economics	3	0
	EC 315	Salesmanship	0	2
	EC 407	Business Law	0	3
	EC 411	Marketing Methods and Sales Management	3	0
		English Elective	0	3
	FOR 421	Log and Lumber Grades and Specifications	0	2
	FOR 423	Logging and Milling	3	0
	FOR 433	Gluing and Plywood	3	0
		Electives	6	8
			18	18

4	EC 401	Principles of Accounting	3	0
	EC 410	Manufacturing Accounting	0	3
	EC 425, 426	Industrial Management and Personnel Management	3	3
	FOR 401	Wood Preservation	0	2

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		Credits	
FOR 402	Foundations of Forest Management	2	0
FOR 432	Marchandising Forest Products	2	0
FOR 441	Mechanical Properties of Wood	3	0
FOR 453	Lumber Structures	0	3
FOR 512	Forest Economics	3	0
	Electives	3	7
		19	18

* Students with comparable experience, upon faculty approval, may substitute one additional summer's work experience for Summer Camp. After completion of 12 weeks of plant experience and presentation of a satisfactory report, three hours of academic credit will be granted.

WOOD PRODUCTS MERCHANDISING, FIELDS OF SPECIALIZATION— —

A student should select one of the following fields of specialization. Courses marked with an asterisk (*) are required. Technical electives should be scheduled from the remaining courses listed in the field of specialization.

BUILDING MATERIALS

		Credits	
CE 351*	Details of Building Construction	2	0
CE 361*	Estimates and Costs I	3	0
EC 415*	Advertising	2	or 2
EC 420	Corporation Finance	3	0
EC 432	Industrial Relations	2	or 2
EC 501	Advanced Economic Theory	0	3
EE 350	Electrical Applications in Wood Products	0	3
ENG 332*	Argumentation and Persuasion	3	0
FOR 422	Forest Products	3	0

TECHNICAL SALES AND SERVICE

CHE 205	Chemical Process Principles I	0	4
CHE 543	Technology of Plastics	0	3
EC 415*	Advertising	2	or 2
EC 420	Corporation Finance	3	0
EC 521	Office Management	3	or 3
EE 350	Electrical Applications in Wood Products	0	3
ENG 332*	Argumentation and Persuasion	3	0
FOR 422*	Forest Products	3	0
FOR 443	Wood Finishing	0	3
FOR 481	Pulping Processes	2	0
FOR 563	Quality Control	3	0
MA 211, 212*	Analytic Geometry and Calculus B, C	3	3
ME 304	Fundamentals of Heat Power	3	0
ST 361	Introduction to Statistics for Engineers	3	or 3

LUMBER AND PLYWOOD

EC 415*	Advertising	2	or 2
EC 420	Corporation Finance	3	0
EC 432	Industrial Relations	2	or 2
ENG 332*	Argumentation and Persuasion	3	0
FOR 422*	Forest Products	3	0
FOR 443	Wood Finishing	0	3
FOR 513*	Tropical Woods	0	2

		Credits	
FOR 533*	Advanced Wood Structure and Identification	2	0
FOR 563*	Quality Control in Wood Products Manufacturing	3	0
ST 361*	Introduction to Statistics for Engineers	3	or 3

* Students with comparable experience, upon faculty approval, may substitute one additional summer's work experience for Summer Camp. After completion of 12 weeks of plant experience and presentation of a satisfactory report, three hours of academic credit will be granted.

SCHOOL OF GENERAL STUDIES

C. ADDISON HICKMAN, DEAN

—INTRODUCTORY

When it became the Land-Grant College of North Carolina, State College inherited a long tradition of education, calling for furnishing maximum service to all the citizens of the state. Its progress from the first, therefore, embraced the finest technical training based on the most thorough research, coupled with the humane and social studies necessary in developing individuals of the highest character and civic responsibility. From the beginning, State College, like other Land-Grant colleges, has taken as its goal this two-fold function: training men of professional and technical leadership who are at the same time men of social leadership, whole men able to live as enlightened free citizens in our democratic state.

With the consolidation of State College into the University of North Carolina in 1935, this double function was given further recognition. A Basic Division was formed which, without granting degrees in liberal arts, was to form a broad base on which all technical education was to be built. Specifically, the Basic Division was charged with instruction in the fields of humanities and social sciences, physical education and recreation, and was committed to provide the opportunities in general education necessary for a well-rounded program in all the technical fields pursued by State College students. In this, the Basic Division was in effect an integral part of all the technical schools, since it brought to bear on all students of all academic years the impact of instruction in the area of the humanities and social sciences to implement instruction in technical and professional subjects in the degree-granting Schools. That this instruction was deemed significant at State College is shown by the fact that the portion of curricular time devoted to these studies gradually increased until more than one-fourth of class instruction was done in the areas embraced by the Basic Division. Further recognition of the importance of the general education of technical students came with the action of the Board of Trustees in May, 1952, when the Basic Division was renamed the School of General Studies and placed on an equal basis with the technical schools of State College.

GENERAL STUDIES

OBJECTIVES — — — — —

The over-all objectives of the School of General Studies have become clear through the years. Its purposes are: to develop the student's communication and reading skills through the study of language and literature; to increase his understanding of the complex economic, social, political, and philosophical world in which he will live and work; to develop in him a sense of social responsibility as a scientist and technical leader in the world of technology and science; to teach him to think critically and scientifically in the social world of men as he does in the material world of his profession; to quicken his appreciation of the role played by both science and the arts in human affairs. Beyond the fundamental training in these fields as required by the technical curricula of the Schools, the School of General Studies also provides additional elective work in these areas so that each student may pursue further his own interests.

ORGANIZATION — — — — —

The School of General Studies includes the Departments of Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Physical Education, Social Studies, and Sociology and Anthropology. The Dean and the department heads constitute the Administrative Board of the School of General Studies. This Board works with the School Faculty in matters of policy and instruction.

THE DEPARTMENT OF ECONOMICS — — — — —

Professor CLARK LEE ALLEN, *Head of the Department*

Professors C. ADDISON HICKMAN, R. O. MOEN, C. B. SHULENBERGER,
T. W. WOOD

Associate Professors E. A. FAILS, CLEON W. HARRELL, J. A. LYONS

Assistant Professors A. J. BARTLEY, C. D. CLARK, M. M. GAFFNEY, B. M.
OLSEN, V. S. PIKNER, O. G. THOMPSON

Lecturers D. R. DIXON, J. A. LYONS

Instructors CATHERINE W. ABRUZZI, ALLISONE M. CLARKE, NEWELL B.
HAM, TOM MARTINSEK

The Department of Economics seeks to help students understand the economic process, the nature and functioning of our economy, and useful approaches and methods of economic analysis. In pursuance of this end, the department has a representative offering of courses in the major fields of economic theory, applied economics, and business operation. Although most of the courses offered by the department are primarily or exclusively for undergraduate students, many courses are open to graduates, and several courses have been designed primarily for students working toward advanced degrees in the technical schools. Members of the department are also engaged in extension work, as well as in research.

THE DEPARTMENT OF ENGLISH — — — — —

Professor LODWICK HARTLEY, *Head of the Department*

Professors J. D. CLARK, A. M. FOUNTAIN, A. I. LADU, R. P. MARSHALL,
J. W. SHIRLEY

Associate Professors P. H. DAVIS, H. G. KINCHELOE, E. H. PAGET, A. B. R.
SHELLEY, R. G. WALSER, R. B. WYNNE, D. J. RULFS, L. H. SWAIN

Assistant Professors WILLIAM BARNHART, F. H. MOORE, P. J. RUST, J. SUBERMAN, L. R. WHICHARD
Instructors L. H. ANTONAK, H. G. ELDRIDGE, JR., A. S. KNOWLES, JR., L. F. LADD, B. G. KOONCE, JR., JACK PORTER, G. F. PROVOST, N. G. SMITH, HULDAH B. TURNER, P. WILLIAMS, JR., R. L. ZIMMERMAN
Visiting Professor SADIE J. HARMON

The Department of English has as its primary objective teaching the student to read, think, write, and speak clearly and effectively, an objective which it accomplishes through basic courses in composition, in speech, and in advanced writing. As a secondary aim, the department seeks to give the student an awareness of his cultural heritage and of the development of the civilization of which he is a part. This aim it attempts to achieve through courses which stress the development of Western and American thought as expressed in literature.

THE DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

Professor PRESTON W. EDSALL, *Head of the Department*
Associate Professors L. W. BARNHARDT, S. NOBLIN, P. M. RICE, L. W. SEEGER.
Assistant Professors M. L. BROWN, JR., A. HOLTZMAN, C. F. KOLB, L. F. REITZER
Instructor B. F. BEERS

An understanding of the historical background of our times and of political principles and governmental systems is expected of the educated man. This department, by giving specially designed courses, both elective and required, seeks to aid students in gaining this understanding. While most courses offered in history and political science are designed for undergraduates, the department offers a few graduate courses which may be built into the programs of students working for advanced degrees. It also cooperates with the College Extension Division in making selected courses available to adults who are not resident on the State College campus.

THE DEPARTMENT OF MODERN LANGUAGES

Associate Professor GEORGE W. POLAND, *Head of the Department*
Associate Professor S. T. BALLENGER
Assistant Professors F. J. ALLRED, RUTH B. HALL

The Department of Modern Languages provides instruction in French, German, Spanish, and Italian, as well as special instruction in English for foreign students. It also offers courses in the literature and culture of these language areas.

The Department cooperates with graduate and research programs by offering special courses for graduate students in connection with language requirements for advanced degrees and by providing translation service. Through a special feature of instruction, graduate students enrolled in technical and scientific courses translate projects in their field of major interest. Upon satisfactory completion of these projects, the students submit them as evidence of reading ability in the particular language. The translations are then made available to interested individuals or agencies.

GENERAL STUDIES

THE DEPARTMENT OF PHILOSOPHY AND RELIGION— — —

Professor W. N. HICKS, *Head of the Department*

Assistant Professors P. A. BREDENBERG, W. L. HIGHFILL, J. L. MIDDLETON

Instructor W. C. FITZGERALD, JR.

The primary function of the department is to provide basic courses in religion and philosophy especially designed to serve students in the several degree-granting schools of the College—courses that are fundamental in the sense that the utility of critical inquiry and the nature of faith are stressed and related to student experience.

Creeds and metaphysical issues persist in human affairs because a sense of immediate direction in daily living, and something of rational explanation of existence, are abiding human needs.

In matters religious and philosophical, no universally acceptable final answer has yet been achieved. It is imperative, therefore, that able and systematic and free examination of creedal beliefs and metaphysical assumptions in all areas of man's life be vigorously and unceasingly continued. By this means faith can be kept vital, insidious provincialism thwarted, and the significant intellectual achievements of the past and present conserved and advanced.

The Department of Philosophy and Religion has no monopoly on these things; however, it is especially dedicated to the task of reminding, should others forget.

THE DEPARTMENT OF PHYSICAL EDUCATION — — —

Professor PAUL H. DERR, *Head of the Department*

Professor J. F. MILLER

Associate Professor W. E. SMITH

Assistant Professors J. B. EDWARDS, JR., H. KEATING, J. F. KENFIELD

Instructors H. O. FLOYD, JR., A. HOCH, W. R. LEONHARDT, J. H. LITTLE,
F. J. MURRAY, W. SONNER

The purpose of the Department of Physical Education is to make a maximum contribution to the general welfare of the student by providing programs and conditions in which he may develop and maintain physical strength and stamina, relax tensions, acquire an appreciation for the importance of healthful living, and develop knowledge and skills for recreation. The programs also provide situations in which the student may develop qualities of cooperation, leadership, and social poise.

To achieve these aims, the department serves two functions: it provides instruction and supervision for the participant in physical education in regular classes; and it offers opportunities for all students to participate in beneficial forms of physical exercise through the program in intramural athletics, which is administered by the department.

THE DEPARTMENT OF SOCIAL STUDIES— — — — —

Professor GEORGE A. GULLETTE, *Head of the Department*

Professors C. I. FOSTER, A. K. F. MCKEON

Associate Professors E. M. HALLIDAY, J. R. LAMBERT, JR.

Assistant Professors P. A. BREDENBERG, H. COLLINS

Instructors J. L. COLE, R. N. ELLIOTT, F. R. PLACE, S. VENTURELLA

The Department of Social Studies draws its staff from the various fields of the humanities and the social sciences. It contributes to the training of men whose professional competence is devoted to the public interest by offering courses especially designed to emphasize the close interconnections that bind liberal studies to the world of science and technology.

THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Professor SANFORD R. WINSTON, *Head of the Department*

Associate Professor E. H. JOHNSON

Assistant Professor H. D. RAWLS

Instructor MARGERY CLARK

Courses offered by the department fall into three overlapping areas: (1) courses concerned with the general education of the student; (2) supporting courses in those curricula in which a knowledge of society and human behavior is deemed essential; and (3) courses given in conjunction with other departments which help prepare the student for rather specific types of professional activity upon graduation.

The general objective of courses in the department is to encourage the student as a citizen and as a professional person to see himself as a part of his society. It is believed that the student must understand something of the characteristics and functioning group behavior within the urban-industrial milieu of western civilization. He is shown that the human being operates within a social world which is the result of long cultural development; and he is encouraged to see his relationship within the framework of society with the result that he conceives of his behavior as a part of a larger social framework. The importance of adjustment to life is emphasized in all classroom teaching as well as in conferences on individual problems.

SCHOOL OF TEXTILES

MALCOLM E. CAMPBELL, DEAN

—INTRODUCTORY

Food, clothing, and shelter are recognized as the three basic needs of man, and as a corollary of this fact the manufacture of textiles has become one of the world's leading industries. From early beginnings as an occupation governed by tradition and rule of thumb the textile industry has advanced to a highly complex, technical stage. North Carolina has risen steadily with the growth of textiles until it now ranks first in the nation in terms of employment and manufactured products. There are at present more than 900 textile plants located throughout the state producing a variety of commodities ranging from coarse cotton yarns and fabrics to the finest of laces and wearing apparel, from experimental synthetic fibers to finished fabrics woven of these man-made yarns. The current trend indicates that constant research and the application of its results are continuing to attract more manufacturers to the state along with even more diversified phases of the textile industry.

Because of the tremendous expansion in the scope of textiles it has become necessary to utilize the talents of the chemist, the physicist, the engineer, the businessman, as well as the traditional weaver, spinner, and dyer. The field of textiles, although as old as man himself, has all

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the vigor of a young industry; and because it encompasses such a diversity of activity, offers limitless opportunity to a man whatever his specific interest may be.

The School of Textiles offers technical instruction, both undergraduate and graduate, in the applied sciences underlying the production and finishing of textile products. Textile research, which is an important function in its operation, supplements and supports graduate study through applied and fundamental investigations.

The purpose of the School is fourfold: to educate men and women for professional service in all phases of the textile industry; to develop their capacities for intelligent leadership; to aid in the economic development of the textile industry; and to cooperate with the textile industry in improving, through scientific research, manufacturing efficiency and the quality and value of manufactured products.

For Administration, the School of Textiles is organized into five departments:

<i>Professor</i> E. B. GROVER	FIBER AND YARN TECHNOLOGY
<i>Professor</i> W. E. SHINN	KNITTING TECHNOLOGY
<i>Professor</i> B. L. WHITTIER	FABRIC DEVELOPMENT
<i>Professor</i> H. A. RUTHERFORD	TEXTILE CHEMISTRY
<i>Professor</i> W. A. NEWELL	TEXTILE RESEARCH

Curricula

Two four-year curricula, Textile Technology and Textile Chemistry, are offered. The freshman program is identical in each. Seven options in the Textile curriculum enable a student to specialize in some particular phase of textiles. Each option includes 20 semester credits in related courses. The options, which are listed following the curriculum, are: General Textiles Technology, Textile Management, Yarn Manufacture, Weaving and Designing, Knitting, Synthetics, Quality Control.

Selected courses leading to the degree of Bachelor of Science in Textiles are offered to graduates of universities and standard colleges. These are arranged in accordance with the professional aim of the student and the credits presented. If the student presents enough acceptable credits for courses required in a curriculum, he may be graduated with a Bachelor of Science degree in Textiles in one year. It should not take more than two years plus one or two summer schools to complete work for a degree.

A minimum of 160 semester credit hours, and net quality points equivalent to the number of credit hours earned, are required for graduation.

Degrees

Upon the completion of any of the options in Textile Technology, the degree of Bachelor of Science in Textiles is conferred. Upon the completion of the curriculum in Textile Chemistry, the degree of Bachelor of Science in Textile Chemistry is conferred.

The degree of Master of Science in Textiles or of Master of Science in Textile Chemistry is offered for the satisfactory completion of one year of graduate study in residence. Candidates for the degree of Master of Science enter and are enrolled in the Graduate School of the College. For general requirements, consult The Graduate School Catalog.

FACILITIES

The Textile Building, erected in 1939 and greatly enlarged in 1950, was designed to harmonize teaching and laboratory facilities. It houses one of the most modern and best-equipped textile institutions in the world.

OPPORTUNITIES

Technological advances in textile fibers and manufacturing techniques have created a tremendous demand for men technically trained in textile colleges. For the past several years, the School of Textiles has had a demand for graduates greater than it could supply. Its graduates have entered the textile industry at salaries equal to or better than those offered in many other industries.

Graduates of the School are equipped to enter many fields related to textiles, such as manufacturing, sales, or research; and alumni of the School hold responsible positions in each of these fields. Many are now mill presidents or general managers.

Some of the specific fields available are: production of yarns, production of woven and knitted fabrics, dyeing and finishing, industrial engineering, quality control, designing, styling, merchandising, converting, research, cost and production control sales of equipment and materials to the textile industry.

To assist in the placement of students and alumni and to facilitate interviews by textile firms, the School maintains a full-time Placement Director.

INSPECTION TRIPS

For certain of the textile courses offered, it is deemed advantageous for the student to see the manufacturing process under actual operating conditions. Therefore, when possible, trips are arranged for student groups to visit outstanding manufacturing plants. When so arranged, such trips are compulsory; transportation costs and other travel expenses, while held to a minimum insofar as possible, must be paid by the student.

SHORT COURSES

It is the policy of the School to offer short course training for textile mill men who have a limited amount of time to spend at the School. These courses can be offered when a demand for them exists. The subject matter is selected to meet the needs of the group.

EXTENSION COURSES

The staff of the School cooperates with the Extension Division of the College in offering textile courses by correspondence to employees of textile mills who wish to engage in this type of study. Applications for enrollment in these courses should be mailed direct to Edward W. Ruggles, Director, College Extension Division, State College Station, Raleigh, North Carolina.

FIBER AND YARN TECHNOLOGY

Professor ELLIOT B. GROVER, *Head of the Department*

Professor D. S. HAMBY

Assistant Professors J. S. PARKER, W. E. SMITH, J. E. PARDUE

Instructor W. C. STUCKEY, JR.

Laboratory Technician BARBARA S. GAST

OBJECTIVES

The purpose of this Department is to instruct in the theory and practice of producing yarns; to conduct experimental processing in the utilization of cotton, wool, and the various synthetic fibers, and combinations of these; to study the engineering aspects of the machinery involved; and to cooperate with mills in solving manufacturing problems through research and experimentation.

FACILITIES

OPENING AND PICKING

The opening and picking equipment, located in a separate humidified laboratory, consists of two lines of equipment: a completely coordinated line consisting of blending feeders, openers, and a one-process picker, arranged to allow full scale production with by passes provided for man-made staple fibers and experimental work; and individual breaker and finisher pickers for processing samples.

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CARDING SECTION

A laboratory equipped for carding, combing, drawing, and related processes is located in one large humidified laboratory. The machinery consists of different types of cards, regular and controlled draft drawing, and combing machinery suitable for processing a wide range of materials from carded cotton to synthetics and wool on the cotton system.

ROVING SECTION

A complete group of roving frames, including conventional as well as controlled or long draft types is located in another laboratory.

YARN SECTION

The yarn section laboratory contains equipment for spinning, twisting, and winding. In order to conserve room and to have as many types of equipment as possible, the machinery in this section has been built in shorter-than-standard lengths, but it is complete in every other respect. Practically all industrial types of drafting are represented, both in demonstration units and operating equipment. Sample installations are available of overhead cleaning, Pneumafil, roll buffing, different types of spindles, and of many other modern developments. Included in the department also are several types of twisters and many of the standard types of winders to wind skeins, cones, dye packages, or tubes.

RESEARCH LABORATORIES

Three separate laboratories for applied research in fiber processing are located in the yarn department. These are described in the section under **Physical Testing Laboratories**.

CONTINUOUS FILAMENT LABORATORY

A laboratory completely equipped for the processing of continuous filament synthetic yarns from soaking through winding is enclosed in another separate humidified room. This laboratory has the complete range of equipment necessary for the processing of crepe, voile, and hosiery yarn and includes: soaking tub, extractor, dryer, twist-setting oven, spooler, upstroke twisters, double twister, quill winder, cone winders, and nylon sizing machine, plus supplementary equipment.

WOOL SECTION

An entirely new laboratory has been set up for the processing of wool and long-staple synthetic fibers and blends. Included in the equipment is a Davis and Furber Wool Unit, complete from machinery to handle blending through the warping of the spun yarn. A Warner and Swasey Pin Drafter has recently been added, and the addition of other modern equipment is being planned. Courses in processing wool are included in the curricula.

PHYSICAL TESTING LABORATORIES

There are three separate air-conditioned laboratories, one of which is used for teaching and undergraduate student work and another for industrial research and graduate student research. The third laboratory, which has a separate air-conditioning unit, is used for fundamental and applied research where it is necessary to have atmospheric conditions varying from the standard.

The laboratories are equipped for the physical testing of fibers, yarns, and fabrics. Included in the laboratory equipment are the following: a complete range of fiber testing equipment, two Instron Testers, several torsion and other types of balances, several combination skein and fabric breaking machines, inclined plane testers, single strand pendulum testers, Moscrop multiple single strand testers, bursting strength testers, drying ovens, abrasion machines, twist testers, densometers, hydrostatic pressure tester, automatic reels, permeability testers, evenness testers, and

many other types of laboratory equipment, including both commercial and special instruments developed at the school.

The portion in Yarn Manufacture is listed with the other options.

-KNITTING TECHNOLOGY

Professor WILLIAM E. SHINN, Head of the Department

Associate Professor J. G. LEWIS

Assistant Professor H. M. MIDDLETON, JR.

OBJECTIVES

In recognition of the great importance of knitting and the other needle arts in the industrial life of this section, a Department of Knitting has been set up with the objective of making available to this branch of the textile industry personnel more adequately trained in the fundamentals and practices underlying the production of knitted textiles.

FACILITIES

The laboratories of the Knitting Technology Department, organized and equipped for instruction in many phases of the knit-goods industry, are grouped as follows:

SEAMLESS HOSIERY

Equipment for instruction in seamless hosiery production includes representative types of machines arranged in two groups. The more elementary types, including ribbers and plain hosiery machines with the elementary attachments such as strippers, reverse plating and rubber top attachments, are arranged together for beginning students. The more advanced types are grouped together for advanced students. This line includes advanced rib type machines, Komets, Banner Wrap Reverse, several types of float stitch machines, and machines for the manufacture of hosiery with ornamental wrap patterns.

NYLON HOSIERY

This section is equipped with three full-fashioned hosiery knitting machines of modern types, in 45-gauge, 51-gauge, and 54-gauge respectively. There is provided also a 400-needle women's nylon hosiery machine of the circular type. This equipment forms the basis for instruction in the general course in hosiery manufacture and for the more advanced instruction in full fashioned hosiery production. Equipment for the looping and seaming of hosiery, for preboarding, dyeing, and finishing of fine hosiery is provided in separate rooms.

CIRCULAR KNITWEAR

A wide assortment of large diameter fabric knitting machines is provided for demonstration and instruction in the production of cloth for both underwear and outerwear. This group includes both latch needle and spring needle types for jersey, rib, interlock, and Jacquard fabric.

GARMENT CUTTING AND SEAMING

A laboratory for experimental garment design and manufacture has been set up with modern power cutting equipment and many types of industrial sewing machines for producing garments for both outerwear and underwear. This unit is supplemented by knit goods finishing equipment located in the hosiery and knitwear finishing laboratory.

WARP KNITTING, FLAT KNITTING

The knitting department laboratories include five warp knitting machines of the tricot and raschel types. These machines furnish the basis for instruction in the design, analysis, and production of a wide range of warp knitted fabrics. A collection of fabrics and several winding and warp preparation machines make it possible to process a wide variety of

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materials. Flat machines of the V-bed and links-and-links type are employed for instruction in the production of heavier knitwear such as sweaters.

KNIT GOODS FINISHING

Devoted entirely to experimental work in hosiery and knit goods finishing, this laboratory contains modern equipment for pre-boarding, dyeing and finishing machinery, a knit goods calender for finishing knitted tubing, a fabric brush, and an experimental warp sizing machine for the preparation of warp yarns for tricot knitting.

The option in Knitting Technology is listed with other options.

FABRIC DEVELOPMENT — — — — —

Professor BENJAMIN L. WHITTIER, *Head of the Department*

Associate Professors J. A. PORTER, JR., W. E. MOSER

Assistant Professors J. B. GAITHER, E. B. BERRY, J. W. KLIBBE

OBJECTIVES — — — — —

The purpose of this Department is to instruct students in the theory and practice of weaving and designing fabrics ranging from simple print cloths and elaborate leno and jacquard creations; to cooperate with the home economics departments of North Carolina colleges in creating consumer interest in textile products; to cooperate with mills in solving manufacturing problems through research and experimentation.

FACILITIES — — — — —

WEAVING LABORATORIES

These laboratories contain a larger variety of looms than can be found in a textile mill, carefully selected so that the student may obtain knowledge of the different looms made in the United States. On this equipment are produced all types of fabrics, including print cloths, denims, sateens, ginghams, fancy shirting, dobby weave dress and drapery materials, pile, leno, and jacquard fabrics, woven from natural and synthetic fibers. The weave room is completely humidified.

WARP PREPARATION

The equipment for preparing yarn for weaving is located in a separate department. This equipment includes a modern high speed warper and a rayon type slasher as well as auxiliary equipment such as skein, cone, and filling winders. There is also a silk type combination warper and beamer used for making short warps for student instruction. There is a separate room for drawing in warps.

DESIGNING AND FABRIC ANALYSIS

Full design board equipment for both single and double cloths is provided in the classrooms. In addition to dies for cutting samples, different makes of balances and microscopes are provided for the analysis of fabrics. Other designing equipment includes an enlarging camera, card cutting pianos, and card lacing equipment.

CLOTH INSPECTION

Separate facilities are provided where students can learn the technique of grading woven materials, using completely modern inspection equipment.

The option in Weaving and Designing is listed with the other options.

TEXTILE CHEMISTRY — — — — —

Professor HENRY A. RUTHERFORD, *Head of the Department*

Professor K. S. CAMPBELL

Associate Professor A. C. HAYES

Visiting Professor R. W. JACOBY

— — — — — **OBJECTIVES**

The purpose of this Department is to instruct students in the chemistry of natural and synthetic fibers, and in the theory and practice of scouring, bleaching, dyeing, finishing, and printing of yarns and fabrics; to conduct laboratory experimental work demonstrating the principles set forth in lecture periods; to cooperate with the mills of the state in solving problems relating to the wet processing of textile materials.

— — — — — **CURRICULUM**

The curriculum in Textile Chemistry is listed with the other Textile curricula. Changes in the requirements for students selecting this curriculum may be anticipated from time to time in order that the academic training may be kept abreast of modern developments in the application of chemistry to textile materials.

— — — — — **FACILITIES**

DYEING LABORATORY

This is a complete laboratory, modern in every respect, with generous provision for bench space, equipment storage facilities, utilities, and steam baths. It is used for all laboratory work dealing with chemical properties of textiles, dye synthesis, color matching, and all types of dyeing.

DYE HOUSE

In this room is assembled one of the finest groups of dyeing and finishing machinery for instructional and experimental purposes in existence anywhere. Obtained over the last three or four years at a cost of over \$150,000, the equipment includes a singeing machine, a continuous dyeing range of the pad-steam type, a Williams unit, a du Pont-type continuous bleaching unit, four package dyeing machines, a dye beck, dye jig, rotary hosiery dyeing machine, and piece goods dyeing and finishing units utilizing dry cans, and enclosed tenter frame, and a continuous loop drying and curing unit supplied with both steam and gas-fired heat sources.

MICROSCOPY

Excellent facilities are available for work in textile microscopy. The laboratory contains the most modern instruments including microscopes, cross sectioning devices, and equipment for photomicrography. In addition to the ordinary monocular microscope, binocular and polarizing types are available. The dark room contains everything needed for photographic work.

RESEARCH AND TEXTILE CHEMICAL ANALYSIS

Two laboratories equipped for chemical research on fibers and on textile chemical specialties are available for use by advanced undergraduate students working on special problems and for research. Equipment includes a reflectometer, a spectrophotometer with all supplementary apparatus, colorimeters, and the common testing equipment used for evaluation and for determining color-fastness, washfastness, etc., of dyed fibers and fabrics.

— — — — — **TEXTILE RESEARCH**

Professor WILLIAM ANDREWS NEWELL, Research Coordinator
Professor J. F. BOGDAN, Director of Processing Research
Professor H. A. RUTHERFORD, Director, Chemical Research
Professor D. M. CATES, Assistant Director, Chemical Research

— — — — — **OBJECTIVES**

Through financial assistance extended by the North Carolina Textile Foundation, a program of research has been initiated that is far-reaching in its influence on the operations and development of the textile industry in North Carolina and in the nation.

TEXTILES

The scope of this research embraces applied and fundamental investigations in the fields of fiber, yarns, fabrics, textile chemistry, fabrication, machinery.

Research is carried out by a full-time research staff, trained in the physical sciences, with the assistance of department heads and the members of the teaching staff.

FACILITIES — — — — —

Equipment for processing and chemical research is available in eight laboratories, four of which are devoted entirely to research. In addition, equipment used for instruction can also be employed if needed. Complete spinning units are available for manufacture of yarns on the cotton, woolen, and worsted systems.

The research department also carries out the training of students on both undergraduate and graduate levels by providing direct participation in the instructional program and by furnishing part-time employment to these students.

SYNTHETIC FIBERS DIVISION — — — — —

OBJECTIVES — — — — —

The purpose of this Division is to acquaint students with the various types of synthetic yarns and to instruct in the basic properties, handling methods, and conversion into representative end products of each. The Division acts in conjunction with the Knitting, Technology, Fiber and Yarn Technology, Fabric Development, Textile Chemistry, and Research Departments of the School of Textiles to provide a broad groundwork in synthetic yarn fundamentals.

FACILITIES — — — — —

Laboratories are coordinated with and are a part of the laboratories of the Departments of Fiber and Yarn Technology, Fabric Development, and Knitting Technology.

The option in Synthetics is listed with the other options.

MACHINE DESIGN AND DEVELOPMENT — — — — —

- C. M. ASBILL, JR., *Head of Department*
- C. E. COX, *Toolmaker*
- J. C. GROFF, *Equipment Custodian*
- J. C. EDWARDS, *Equipment Custodian*

OBJECTIVES — — — — —

The purposes of this department are:

To develop new types of textile machinery and to improve existing types.

To keep abreast of modern developments in machines and testing equipment by a digest of patents and technical articles in the various textile publications, as well as by close contacts with mills and machine manufacturers.

To furnish engineering assistance and advice relating to patents to individuals and organizations interested in the design or development of textile machines or related apparatus.

To place within reach of and at the disposal of interested students and the teaching and research staff of the School of Textiles the facilities of a qualified textile engineering department with means for the construction and testing of new and improved equipment.

FACILITIES

The facilities consist of design and drafting equipment together with a completely equipped machine shop for the production of both large production machines and smaller and more delicate testing apparatus.

The establishment of this Department within the School of Textiles was made possible by the financial assistance of the North Carolina Textile Foundation. Its functions extend to all phases of textile manufacturing and processing, including both the mechanical and electrical fields. Patents will be secured on all worthwhile developments and administered in accordance with the Patent Policy of the College.

TEXTILE LIBRARY

KATHERINE MCDIARMID, *Librarian*

As a result of a substantial gift by the Burlington Mills Corporation, the Textile Library was relocated in the Textile Building in 1951. The new, enlarged quarters were designed to incorporate the latest functional improvements.

The library was organized in 1944; in 1945 the entire textile collection from the D. H. Hill Library was added to it. There are now about 4,500 volumes, of which 2,000 are bound periodicals. The library subscribes to 120 current periodicals, both American and foreign, which are thoroughly indexed in Industrial Arts Index, Chemical Abstracts, Natural and Synthetic Fibers, and Textile Technology Digest.

In addition to books and periodicals, the librarian and student assistants maintain files of pamphlets, reprints, trade catalogs, and patents. Special card indexes have been prepared for these collections.

The holdings of the Textile Library are available on loan not only to students and faculty of the College but also to research workers and industry employees throughout North Carolina.

CONSULTING SERVICE

GEORGE H. DUNLAP, *Textile Consultant*

In recognition of the need for close contact with the textile mills this division was organized with the assistance of the North Carolina Textile Foundation. It is the function of the Textile Consultant to visit as many mills as possible during the year, to discuss with executives their technical problems, and assist in their solution. In many cases this involves experimental work which may be conducted in the mill or brought to the School for consultation with the staff or for special work in the laboratories.

The Textile Consultant frequently cooperates with the officials of trade associations in planning and arranging programs and represents the School at these meetings.

TEXTILE PLACEMENT BUREAU

GEORGE H. DUNLAP, *Director*

The Placement Bureau is a clearing house for students in the graduating class and for textile alumni. It is a coordinating agency for the employer and the graduates of the School of Textiles. The Placement Bureau tries to keep an accurate file of all textile alumni and the progress they have made. Therefore, all alumni are requested to notify the Director when they receive a promotion or transfer from one organization to another.

-SPONSORED PROFESSORSHIPS

Four sponsored professorships are now in effect in the School of Textiles. These are made possible by funds contributed to the North Carolina Textile Foundation, Inc., and especially designated to pay a part of the annual salary of the Professor selected to fill the position.

TEXTILES

The four professorships, together with the year of establishment and the name of the incumbent for each, are as follows:

Burlington Industries Professorship of Textiles 1946.

DAME S. HAMBY, *Professor of Textiles, Department of Fiber and Yarn Technology*

Edgar and Emily Hesslein Professorship of Fabric Development 1948.

BENJAMIN LINCOLN WHITTIER, *Professor of Textiles and Head, Department of Fabric Department.*

Chester H. Roth Professorship of Knitting Technology 1948.

WILLIAM EDWARD SHINN, *Professor of Textiles and Head, Department of Knitting Technology.*

Abel C. Lineberger Professorship of Yarn Manufacturing 1948.

ELLIOTT BROWN GROVER, *Professor of Textiles and Head, Department of Fiber and Yarn Technology.*

CURRICULUM IN TEXTILE TECHNOLOGY — — — — —

FOR ALL TEXTILE STUDENTS

			Credits	
1	CH 101	General Inorganic Chemistry	4	0
	CH 103	General and Qualitative Chemistry	0	4
	ENG 111, 112	Composition	3	3
	MA 111	Algebra and Trigonometry	4	0
	MA 112	Analytical Geometry and Calculus A	0	4
	ME 101	Engineering Graphics	2	0
	PS 201	The American Governmental System	0	3
	TX 101	Yarn Principles	2	0
	TX 151	Fabric Principles	0	0
	MS 101, 102	Military Science I or		
	or*			
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education*	1	1
			18	19

FOR ALL EXCEPT TEXTILE CHEMISTRY STUDENTS

2	EC 201, 202	Economics	3	3
	HI 252	The United States Since 1865	3	0
	PY 211, 212	General Physics	4	4
	TX 201	Yarn Manufacture II	4	0
	TX 241	Knitting I	0	3
	TX 251	Weaving II	3	0
	TX 261	Fabric Structure	0	3
	TX 281	Fiber Quality	0	3
	TC 201	Textile Chemistry I	0	2
	MS 201, 202	Military Science II or		
	or*			
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education*	1	1

3	EC 401, 402	Principles of Accounting or		
	PSY 200, 337	Introduction to Psychology; Industrial Psy-		
	MA 211, 212	chology I or Calculus	3	3
	EC 425	Industrial Management	3	3

TEXTILES

		Credits	
EC 426	Personnel Management	0	3
	English**	3	3
TX 301	Yarn Manufacture III	0	4
TX 323	Textile Testing II	3	0
TX 341	Hosiery Manufacture	0	2
TX 351	Weaving III	3	0
TX 361	Dobby Design and Analysis I	0	3
	Electives	4	4

* Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses from the following departments: Economics, Psychology, Rural Sociology, Social Studies, or Sociology.

** If approved in advance by the Director of Instruction, students who average C or English, History and Political Science, Modern Languages, Philosophy and Religion, above on Composition, Eng. 111, 112, may substitute 6 credits of Modern Language.

4	TX 483	Textile Cost Methods***	2	0
	TX 484	Mill Organization	0	3
	TX 581	Instrumentation and Control	3	0
	TC 301, 302	Textile Chemistry II	3	3
	TX 425	Textile Microscopy	0	1
		Selected Option: (20 credits in General Textiles, Textile Management, Yarn Manufacturing, Weaving and Designing, Knitting Technology, Synthetics or Quality Control) See Options	10	10
		Electives	3	3
			21	20

*** Students in Management Option will substitute an approved textile course.

GENERAL TEXTILES OPTION			OPTIONS	
TX 373	Fabric Technology	0	2	
TX 401	Yarn Manufacture IV	4	0	
TX 411	Wool Manufacture	0	3	
TX 431	Synthetics I	2	0	
TX 451	Weaving Laboratory IV	1	0	
TX 461	Dobby Design and Analysis II	3	0	
	Textile Courses*****	0	5	
		10	10	

TEXTILE MANAGEMENT				
EC 411, 412	Marketing Methods and Sales Management	3	3	
EC 504, 505	Principles of Cost Accounting	3	3	
	Textile Courses*****	4	4	
		10	10	

YARN MANUFACTURE				
TX 401	Yarn Manufacture IV	4	0	
TX 402	Mill Technology	0	3	
TX 411	Wool Manufacture	0	3	
TX 431	Synthetics I	2	0	
TX 435	Synthetic Fiber Processing	0	4	
	Textile Courses*****	4	0	
		10	10	

TEXTILES

WEAVING AND DESIGNING

		Credits	
TX 373	Fabric Technology	2	0
TX 431	Synthetics I	2	0
TX 451, 452	Weaving IV, V	1	2
TX 461	Dobby Design and Analysis II	3	0
TX 561	Dobby Design and Analysis III	0	2
TX 562	Jacquard Design and Weaving	0	3
	Textile Courses****	2	3
		<hr/>	<hr/>
		10	10

KNITTING TECHNOLOGY OPTION

TX 343	Knitted Fabric Design and Analysis	2	0
TX 441	Flat Knitting	3	0
TX 443	Knitting Mechanics	3	0
TX 444	Garment Manufacture	0	3
TX 445	Full Fashioned Hosiery Manufacture	0	2
TX 447, 448	Knitting Laboratory II	2	2
TX 449	Tricot Knitting	0	3
		<hr/>	<hr/>
		10	10

SYNTHETICS OPTION

TX 402	Mill Technology	0	3
TX 433	Synthetics II	4	0
TX 435	Synthetic Fiber Processing	0	4
TX 476	Synthetics III	0	3
TC 421	Fabric Finishing I	2	0
	Textile Courses****	4	0
		<hr/>	<hr/>
		10	10

QUALITY CONTROL OPTION

ST 361	Introduction to Statistics for Engineers	3	0
TX 424	Development Project	0	2
TX 521	Testing and Quality Control	4	0
TX 522	Textile Testing III	3	4
	Textile Courses****	3	4
		<hr/>	<hr/>
		10	10

**** Calculus 211, 212 may be substituted for elective courses.

CURRICULUM IN TEXTILE CHEMISTRY— — — — —

The freshman year is the same as for the Textile Curriculum*

			Credits	
2	CH 211, 212	Quantitative Analysis	4	4
	HI 252	The United States Since 1865	3	0
	MA 211, 212	Calculus	3	3
	PY 211, 212	General Physics	4	4
		English Elective	3	0
	TX 261	Fabric Structure	0	3
	TX 284	Textile Processing	4	0
	MS 201, 202**	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
PE 201, 202	Physical Education	1	1	
			24	17

TEXTILES

			Credits	
3	CH 421, 422	Organic Chemistry	5	5
	EC 201, 202	Economics	3	3
	ENG 321	Scientific Writing	3	0
	ENG 231	Basic Speaking Skills	0	3
	TX 321	Textile Testing I	3	0
	TC 303, 304	Textile Chemistry III	4	4
	TX 425	Textile Microscopy	0	1
		Electives	3	5
			<hr/>	<hr/>
			21	21
4	EC 425	Industrial Management	3	0
	EC 426	Personnel Management	0	3
	TX 581	Instrumentation and Control	3	0
	TC 403, 404	Textile Chemistry IV	4	4
	TC 423	Fabric Finishing II	3	0
	TC 431	Textile Printing	0	3
	TC 511, 512	Chemistry of Fibers	2	2
		Physical Science, Mathematics or		
		Textile Courses	3	4
		Electives	3	3
			<hr/>	<hr/>
			21	19

* Except that PS 201 replaces the second semester of Engineering Drawing (ME 102).

** Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, or Sociology.

THE GRADUATE SCHOOL OF THE UNIVERSITY OF NORTH CAROLINA

— — — — — STATE COLLEGE DIVISION

WILLIAM WHATLEY PIERSON, JR., *Dean, Chapel Hill*

DONALD BENTON ANDERSON, *Associate Dean, Raleigh*

The Graduate School of the Consolidated University of North Carolina is composed of three divisions, one at each of the three units of the University System. It is administered by the Graduate Dean, the three Associate Deans, and a Graduate Council composed of representatives of each of the units.

At State College, graduate instruction is offered in the fields of Agriculture, Engineering, Forestry, Technological Education, and Textiles. The degree of Master of Science is offered in each of these areas. The Professional Master's Degree also offered in some of these fields is intended for students who are interested in the more advanced applications of fundamental principles to specialized fields rather than in the acquisition of the broader background in advanced scientific studies which would fit them for careers in research.

COLLEGE EXTENSION

The degree of Doctor of Philosophy is offered in the following fields of study:

- Agricultural Economics
- Animal Industry
- Botany (in the fields of physiology and ecology)
- Ceramic Engineering
- Chemical Engineering
- Electrical Engineering
- Engineering Physics
- Entomology
- Experimental Statistics
- Field Crops
- Forestry
- Genetics
- Nuclear Engineering
- Plant Pathology
- Rural Sociology
- Soils
- Zoology (in the fields of ecology and wildlife management)

Students interested in graduate study should consult the Graduate School catalog. A copy will be sent upon request. Inquiries should be addressed to:

Associate Dean, GRADUATE SCHOOL, North Carolina State College, Raleigh, North Carolina.

COLLEGE EXTENSION DIVISION

EDWARD W. RUGGLES, *Director*

OBJECTIVES — — — — —

The College Extension Division is organized to carry the practical and cultural advantages of college studies to persons who cannot attend classes on the campus, and to groups and communities which may profit by the services offered.

SERVICES — — — — —

Extension courses are organized where at least fifteen persons are interested and are willing to take up the same subject. In setting up the courses, such matters as distance from the college, nature of the subject, and availability of instructors must be taken into consideration.

Correspondence courses for college credit are offered in Psychology, Animal Husbandry, Horticulture, Poultry, Agricultural Economics, Rural Sociology, Education, Economics, English, Geology, History, Architecture, Ceramic Engineering, Industrial Engineering, Mechanical Engineering, Mathematics, Modern Languages, Sociology, Statistics, Social Studies, Safety. The list is being steadily increased.

Correspondence courses which do not carry credit and which are designed to stress practical application of the subject matter offered are provided in Mathematics, Land Surveying, Engineering Drawing, Building and Estimating, Industrial Statistics and Quality Control, Poultry, Vegetable Gardening, and Ceramic Engineering.

Short courses of a practical nature are offered every year by the Division to link the facilities of the several Schools at State College with the trades and industries of North Carolina in a permanent educational

program. These short courses are increasing in popularity. During the present school year the following short courses and institutes are scheduled:

Electrical Meters Engineers, Surveyors, Gas-Plant Operators, Dry Kiln Operators, Beef Cattle Conference, Dairy Conference, Statistical Quality Control, Furniture Finishing, Sawmill Operators, Grain Marketing, Farm Income Tax, Salt Water Sports Fishing Institute, Pest Control Operators, Water Works School, Industrial Waste Conference, Personnel Testing Institute, Industrial Management, Industrial Safety, Motion and Time Study, Job Evaluation, Introduction to Quality Control, Industrial Relations, Seedmen's Schools, Pesticide School, Farm Managers, Freezer Locker Operators, Cotton Classing, Lumber Grading, Aerial Photo Interpretation, Commercial Flower Growers School, Beef Production, State Garden Schools, Dairy Production, Dairy Manufacturing, Nurserymen's School, Artificial Breeding, Field Crops Production, Dairy Herd Testing, Radio, Nutrition School, Fresh Water Sports Fishing Institute, Retail Building Supply Marketing Institute, Quality Concrete Conference, Personnel Testing Institute—Introductory and Advanced, Interviewing and Counseling, Management Psychology, Personnel Research, N. C. Press Association Mechanical Conference, Industry Research Conference, Brick and Tile Institute, and a Safety School. Additional courses are offered as the demand arises.

The Gaston Technical Institute at Gastonia, N. C., offers four one-year terminal technical courses; Radio and Television Technology, Electrical Technology, Internal Combustion Engines (gasoline-Diesel), and Automotive Technology. These courses are designed to train young men interested in the electrical, radio, telephone, metal working, wood-working, sheet metal, building, automotive, Diesel, heating and other industries where technical training is essential to success. The Institute, a functional part of North Carolina State College, is operated by the Division of College Extension under the auspices of the School of Engineering. A special catalog is available upon request.

The North Carolina Driver Training School is conducted by the Division in cooperation with the School of Engineering. Drivers and driver training instructors for the Motor Transport Industry are trained in this school. A bulletin giving complete information concerning the school and its functions is available.

For additional information, any person interested in extension classes, correspondence courses, or any of the various functions of the Division may secure bulletins by writing to EDWARD W. RUGGLES, *Division of College Extension*, North Carolina State College, Raleigh, North Carolina.

MILITARY TRAINING

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Professor of Military Science and Tactics COL. R. R. MIDDLEBROOKS

Assistant Professors of Military Science and Tactics LT. COL. JOSEPH A. McCULLOCH, LT. COL. BASIL I. MISHTOWT, MAJOR VERNON B. DRUM, MAJOR JAMES B. LYON, MAJOR WILLIAM J. RIECK, JR., MAJOR TYRUS R. SPINELLA, CAPT. ROBERT A. TOLAR, CAPT. EDWARD B. TURNER, JR., and CAPT. WILLIAM A. WHICHARD.

DEPARTMENT OF AIR SCIENCE

Professor of Air Science COL. J. W. JODY

Assistant Professors of Air Science LT. COL. S. G. AGNEW, MAJOR H. B. McCULLOUGH, MAJOR N. S. HAYS, CAPT. V. L. NUNENKAMP, CAPT. Q. M. LEWIS, CAPT. J. R. OSBORN, CAPT. G. P. MCSWEENEY, 1ST LT. H. R. SELFRIDGE

MILITARY TRAINING

OBJECTIVES — — — — —

The Reserve Officers' Training Corps (ROTC) at State College designates those students enrolled for training in the Department of Military Science and Tactics or in the Department of Air Science. These Departments are integral academic and administrative subdivisions of the institution. The senior Army officer and the senior Air Force officer assigned to the College are designated as Professor of Military Science and Tactics (PMST) and Professor of Air Science (PAS), respectively. These senior officers are responsible to the Secretary of the Army, the Secretary of the Air Force, and the Chancellor of the College for conducting their training and academic program in accordance with instructions issued by the respective secretaries and as required by college regulations. Army officers who are assigned to the College as instructors in ROTC are designated as Assistant Professors of Military Science and Tactics; Air Force officers, as Assistant Professors of Air Science. Non-commissioned officers of the Army are assigned as assistant instructors and administrative personnel. Non-commissioned officers of the Air Force are assigned as administrative and supply personnel.

The Army ROTC, in four years of military training, produces junior officers who have the qualities and attributes essential to their progressive and continued development as officers of the United States Army.

The mission of the Air Force ROTC, as defined by the Department of the Air Force, is to select and prepare students, through a permanent program of instruction at civilian educational institutions, to serve as officers in the regular and reserve components of the United States Air Force and to assist in discharging, where necessary, any institutional obligations to offer instruction in military training.

COURSES OF INSTRUCTION — — — — —

Programs of instruction for both Army and Air Force ROTC consists of a two-year basic course and a two-year advanced course. The satisfactory completion of the basic course in either the Army or Air Force ROTC is required for all physically fit male freshmen and sophomores unless they are excused by the College Administration.* A detailed description of all military courses is given under each of the departments in the section of the Catalog which lists Course Descriptions.

MILITARY SCIENCE AND TACTICS — — — — —

The satisfactory completion of the first year of the Army ROTC course is a prerequisite to entering the second year. Enrollment in advanced courses is elective on the part of the student. The selection of advanced course students is made from applicants who are physically qualified and who have above average academic and military records. Veterans who have one year or more of service in the Armed Forces are eligible for enrollment in the Army ROTC Advanced Course upon reaching their junior year, provided they are in good academic standing, physically qualified, have not reached their 27th birthday and are selected by the PMST and the Chancellor. Normally no veteran will be selected by the PMST unless he has satisfactorily completed a minimum of one semester of the second year basic course.

The Army ROTC course includes instruction in American Military History, Map Reading, Leadership, Military Teaching Methods, Military Administration, Operations and Logistics. These subjects not only prepare students to be officers in the United States Army, but also awaken in them an appreciation of the obligations of citizenship and secure for them personal benefits resulting from practical application of organization and responsible leadership.

* All veterans in active service as long as six months are excused from this requirement, but may enroll in the basic course of Army or Air Force to qualify for later enrollment in advanced courses.

AIR SCIENCE

Enrollment in the Air Force ROTC advanced course is elective on the part of the student. Selection of advanced course students is made from applicants who are physically qualified and who have above average academic and military records. Qualified veterans desiring a commission through the AF ROTC will be required to take that portion of the basic course, with their non-veteran contemporaries, which remains before they are classified as academic juniors. All veterans must have completed their academic and military requirements prior to their 28th birthday.

The Air Force ROTC course of study includes instruction in Global Geography, International Tensions and Security Organizations, Instruments of National Military Security, Problem Solving Techniques, Principles of Leadership and Management, and Applied Air Science in addition to other applicable subjects. The Air Force ROTC curriculum is designed to prepare the student for his obligations of citizenship to his country both as an officer in the United States Air Force and as a civilian.

UNIFORMS AND EQUIPMENT

Officer's type uniforms for students enrolled in both basic and advanced courses in Army ROTC are provided by the Federal Government. Students enrolled in the basic course in Air Force ROTC are provided Air Force type uniforms; for students enrolled in advanced courses in both Army and Air Force ROTC the college is furnished a monetary allowance by the Federal Government for the purchase of uniforms. Army and Air Force equipment for instruction of students is provided by the Federal Government. Both uniforms and equipment are issued to the College, which is accountable for their care and use.

CREDIT

Credit is allowed for work at other institutions having an ROTC Unit established in accordance with the provisions of the National Defense Act and regulations governing the ROTC. Record of a student's prior training in the ROTC is obtained from the institution concerned.

FINANCIAL AID

Students enrolled in the advanced course are paid a monetary allowance in lieu of subsistence at the daily rate equal to the value of the commuted ration (\$0.90) for a total period not to exceed 595 days during the two years of the course. Students in the basic course receive no monetary allowance.

ORGANIZATION OF THE ROTC

ARMY

The Army ROTC Unit at State College consists of an Army regiment and a Drum and Bugle Corps. The Army regiment, commanded by a cadet colonel and staff, consists of a Headquarters Company and three battalions. The cadet colonel and all other cadet officers are selected from students enrolled in the second year advanced course. Cadet first sergeants and sergeants first class are appointed from students enrolled in the first year advanced course. Certain specially selected students in the second year basic course are also appointed as cadet non-commissioned officers. Cadet officers and non-commissioned officers obtain invaluable experience in leadership by being responsible for conducting all drill

MILITARY TRAINING

instruction. They are observed and supervised in this by the officers and non-commissioned officers of the Army assigned to the College.

AIR FORCE — — — — —

The Air Force ROTC unit consists of an Air Force Wing and a Drill Team. The Air Force ROTC Wing, commanded by a cadet colonel, consists of three groups, which are composed of four squadrons each. These squadrons are divided into three flights per squadron, each flight consisting of three squads. The wing, group, squadron, and flight commander and their staffs are cadet commissioned officers, and are selected from cadets enrolled in the second year advanced course. All other positions are held by cadet non-commissioned officers, who are selected from the first year advanced and second year basic cadets. Cadet officers and non-commissioned officers obtain invaluable experience in leadership by being responsible for planning and conducting all drill instruction. They are observed and supervised by the officers and airmen assigned to the College.

DISTINGUISHED MILITARY STUDENTS — — — — —

The College is authorized to designate outstanding students of the ROTC as Distinguished Military Students. These Students may, upon graduation, be designated Distinguished Military Graduates and may be selected for commissions in the regular Army, provided they so desire. Distinguished Military Graduates are not selected for commissions in the regular Air Force, but may apply for a regular commission after serving on active duty for twelve months.

SELECTIVE SERVICE IN RELATION TO THE ROTC — — — — —

Enrollment in the ROTC does not in itself defer a student from induction and service under the Universal Military Training and Service Act. The law provides that "within such numbers as may be prescribed by the Secretary of Defense, any person who (A) has been or may hereafter be selected for enrollment or continuance in the senior division, Reserve Officers' Training Corps, or the Air Force Reserve Officers' Training Corps, or the Naval Reserve Officers' Training Corps; (B) agrees, in writing, to accept a commission, if tendered, and to serve, subject to order of the Secretary of the Military Department having jurisdiction over him, not less than two years on active duty after receipt of a commission; and (C) agrees to remain a member of a regular or reserve component until the eighth anniversary of the receipt of a commission in accordance with his obligation under subsection (d) of section 4 of this title, shall be deferred from induction under this title after completion or termination of the course of instruction and so long as he continues in a regular or reserve status upon being commissioned, but shall not be exempt from registration."

We have magnified results rather than methods of instruction, the use of knowledge rather than its mere acquisition, and the value of our students (alumni) to themselves and to our State rather than the cost of the college's equipment and the greatness of its faculty.

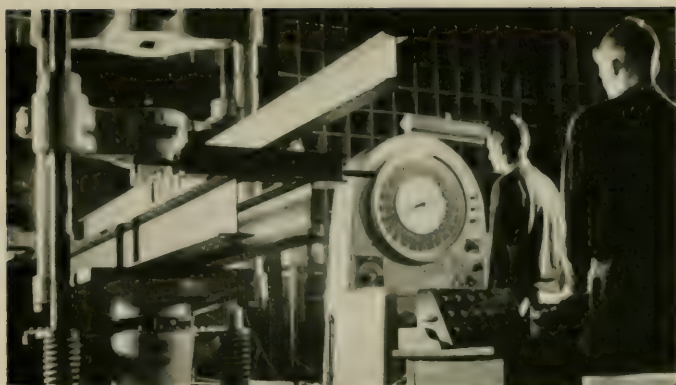
Wallace Carl Riddick
President, 1916-1923

Our aim shall be to combine more completely our natural and human resources, to improve and simplify the machinery of life, and especially to discover and magnify the elements of worth in our students and stimulate a genuine passion for right living. Such a high aim realized will give a greater commonwealth and make certain a greater State College.

Eugene Clyde Brooks
President, 1923-1934



GARDNER HALL RAMP TO THE GREENHOUSES



IN RANGE



FROM AGRICULTURE TO TEXTILES

IV. DESCRIPTIONS OF COURSES

Alphabetically	Pages
A through B	172-184
C through D	184-199
E through F	199-222
G through H	222-231
I through L	231-242
M through O	242-258
P through R	258-273
S through Z	274-290

AGRICULTURAL ECONOMICS — — — — —

COURSES FOR UNDERGRADUATES

Credits and
Terms Offered

AGC 212 ECONOMICS OF AGRICULTURE

Prerequisite: EC 201

An introduction to the economic principles underlying agricultural production; production organization in agriculture; supply of resources to farmers; the relationships between agriculture and the rest of the economy; dynamic factors in the economy as they affect agriculture.

Staff

3 (3-0) f s

AGC 303 FARM MANAGEMENT I

Prerequisite: AGC 212

This course is designed to help students understand how basic economic principles can be applied in the successful operation of a farm. The course will include practice in the development of farm plans with special emphasis on how to deal with major problems involved in operating a successful farm business.

Mr. Pierce

3 (2-2) f s

AGC 311 MARKETING AGRICULTURAL PRODUCTS

Prerequisite: AGC 212

Marketing from the viewpoint of the farmer; relation of demand and supply characteristics of farm products to marketing problems; factors influencing efficiency in the production of marketing services.

Mr. King

3 (2-3) f

AGC 322 AGRICULTURAL COOPERATION

Prerequisite: AGC 212

A study of the cooperative business method; principles of cooperation applied to farmers' purchasing, marketing, and service cooperatives; the role of cooperatives in our society, and problems associated with their organization, operation and management.

Mr. Homme

2 (2-0) f

AGC 342 MARKETING FIELD CROPS

Prerequisite: AGC 212

A course in agricultural marketing in which principles and theories are taught through practical application to cotton, tobacco; and grain marketing processes; the marketing problems and practices and price-making forces affecting each of these commodities.

Mr. Martin

3 (2-3) s

AGC 362 MARKETING DAIRY PRODUCTS

Prerequisite: AGC 212

Economic problems of assembly, processing, distribution, and consumption of dairy products; fluid milk marketing problems of the South; marketing systems, cost factors, pricing and government regulations.

Mr. Homme

3 (3-0) s

AGC 364 MARKETING FRUITS AND VEGETABLES

Prerequisite: AGC 212

Introduction to marketing with illustrations and particular application to fruits and vegetables; buying and selling decisions faced by farmers; supply and demand characteristics of principal fruits and vegetables; the organization of markets and methods of marketing; price and price discrimination; relation of processing industries to marketing; the role of government in the marketing of fruits and vegetables.

Mr. King

3 (2-3) s

AGC 372 MARKETING LIVESTOCK

Prerequisite: AGC 212

An introductory course in the economic aspects of marketing. This course will be devoted to a study of the market-price mechanism in order to give the student an understanding of the functions performed by the market. Special attention will be given to the manner in which market organization and marketing margins are determined with emphasis upon the organization of the livestock marketing industry. (offered even years only, beginning 1956)

Mr. Williamson

3 (3-0) f

AGC 405 AGRICULTURAL LAW

Prerequisite: AGC 212

Provisions of common law and statutory law pertaining to land tenure, farm tenancy, employment of farm labor, buying and selling of farm products; consequences of legal provisions upon farm organization and production, and upon market outlets for farm products.

Mr. Lindsey and Staff

3 (3-0) f

COURSES FOR ADVANCED UNDERGRADUATES

AGC 413 FARM AND APPRAISAL AND FINANCE

3 (2-3) s

Prerequisite: AGC 303

The principles of farm appraisal and practical methods used in determining the value of farms of various types and sizes; credit financing in agriculture, including (1) types, sources, and cost of credit; (2) repayment plans; (3) methods of determining when and how credit can be used effectively by farmers; special problems associated with agricultural credit.

Mr. James

AGC 431 INTRODUCTION TO AGRICULTURAL PRICES

3 (3-0) f

Prerequisite: AGC 212

This is an introductory course in agricultural price behavior. Emphasis is placed on the interpretation of price information as guides for decisions of producers and consumers. The course includes a study of factors affecting prices of farm products; reasons for the fluctuation of prices in different areas and over different periods of time; and some elementary methods of price analysis.

Mr. Pierce

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

AGC 501 INTERMEDIATE AGRICULTURAL ECONOMIC THEORY

3 (3-0) s

Prerequisite: AGC 212, or consent of instructor

This course will deal with the functions of an economic system; theories of demand and utility; costs and production; competitive and monopolistic pricing; income distribution. Advanced students outside Agricultural Economics may use this course to prepare for specialized graduate courses in Agricultural Economics, Econometrics, or Economics.)

Staff

AGC 512 LAND ECONOMICS

3 (3-0) f

Prerequisite: AGC 212

The importance of land in past and present societies; the significance of land as a factor of production in the modern market economy; land resources, their use, and the conservation problem in the United States; the institutional setting; tenure, tenancy and the family farm in the United States and other countries; land policies: background and problems in Western countries and in under-developed areas of the world.

Mr. Toussaint

AGC 521 ECONOMICS OF AGRICULTURAL MARKETING

3 (3-0) s

Prerequisite: AGC 311, or commodity marketing course

A study of marketing firms as producers of marketing services and their role in the price-making mechanism, from the viewpoint of attempts to increase the efficiency of marketing through research.

Mr. King

AGC 523 FARM MANAGEMENT II

3 (2-2) s

Prerequisite: AGC 303

The application of economic principles in the solution of production problems on typical farms in the state; methods and techniques of economic analysis of the farm business; application of research findings to production decisions; development of area agricultural programs

Mr. Lindsey

AGC 533 AGRICULTURAL POLICY

3 (3-0) s

Prerequisite: AGC 212

The agricultural policy and action programs of the Federal government in their economic and political setting; analysis of objectives, principal means, and observable results under short-term and long-term viewpoints and under the criteria of resource use and income distribution, within agriculture, and between agriculture and the rest of the economy; criticism and alternative policy proposals, the effects of commodity support programs on domestic and foreign consumption, and the international aspects of United States agricultural policy; the attempts at work market regulation, and the role of international organizations, agreements, and programs.

Staff

AGC 551 AGRICULTURAL PRODUCTION ECONOMICS

3 (3-0) f

Prerequisite: AGC 212

Description of the conditions affecting economic decisions concerning whether to farm, what to produce, what methods to use in production, and how much of each commodity to produce; application of the conditions of profit maximization in farm planning; factors determining the distribution of income to and within agriculture and the transfer of resources between agriculture and other industries.

Mr. Bishop

AGC 552 CONSUMPTION, DISTRIBUTION AND PRICES IN AGRICULTURE

3 (3-0) s

Prerequisite: AGC 212

Basis for family decisions concerning consumption of goods and services and supply of productive factors; forces determining prices and incomes; interrelationships between economic decisions of the household and the firm.

Mr. Martin

AGRICULTURAL ECONOMICS

AGC 561 SEMINAR IN CONTEMPORARY AGRICULTURAL PROBLEMS Maximum of 6

Prerequisite: Graduate standing and consent of the instructor

Analysis of economic problems of current interest in agriculture, leading to a scientific appraisal of particular problems, and of alternative solutions to such problems.

Staff

COURSES FOR GRADUATES ONLY

AGC 602 MONETARY AND FISCAL POLICIES IN RELATION TO AGRICULTURE 3 (3-0) f

Prerequisite or corequisite: AGC 501, or equivalent

The essentials of monetary theory necessary in interpreting and evaluating monetary and fiscal operations and policies as to their effect upon income, employment, and price level; the monetary and fiscal structure and the mechanics of monetary and fiscal operations in the United States; and the relation of monetary and fiscal policies to agricultural income and prices.

Mr. Tolley or Mr. Williamson

AGC 611 WAGE, PRICE, AND PRODUCTION POLICIES IN RELATION TO AGRICULTURE

3 (3-0) s

Prerequisite: AGC 602

Theories of wages and employment, collective bargaining, and wage differentials; industrial organization in the economy; integration, price and production policies; costs and prices in the cycle, and government policies and workable competition; direct and indirect effects of labor and monopoly policies upon the employment of resources, national income and its distribution, price levels, wages, interest rates, and upon economic magnitudes in agriculture.

Mr. Martin

AGC 612 INTERNATIONAL TRADE IN RELATION TO AGRICULTURE

3 (3-0) s

Prerequisite: AGC 602

The principles of international and interregional trade; structures of trade relationships between countries engaged in the import or export of agricultural products; attempts at stabilizing trade and financial transactions.

Staff

AGC 621 RESEARCH IN AGRICULTURAL ECONOMICS

Credits by Arrangement

Prerequisites: Graduate standing in Agricultural Economics, and consent of Graduate Advisory Committee

A consideration of research methods and procedures now being employed by research workers in the field of agricultural economics, including qualitative and quantitative, inductive and deductive methods of research procedure; choice of projects, planning, and execution of the research project.

Staff

AGC 631 ECONOMIC AND SOCIAL FOUNDATIONS OF AGRICULTURAL POLICY

3 (3-0) s

Prerequisite: Consent of instructor

With respect to agricultural policies and programs, the objectives of this program of study are to construct a logical framework for and to examine problems likely to be encountered in empirical endeavor in any analysis of policy-making processes; interdependencies among economic, political, and social objectives and action; to study the forces which shape economic institutions and social objectives as well as to determine and examine critically the logic, beliefs, and values on which particular policies and programs are founded.

Mr. McPherson

AGC 632 WELFARE EFFECTS OF AGRICULTURAL POLICIES AND PROGRAMS 3 (3-0) f

Prerequisites: AGC 642

Descriptions of the conditions defining optimal resource allocation; application of the conditions for maximum welfare in appraisal of economic policies and programs affecting resource allocation, income distribution, and economic development of agriculture.

Mr. Bishop

AGC 641 ECONOMICS OF PRODUCTION, SUPPLY AND MARKET INTERDEPENDENCY

3 (3-0) f

Prerequisite or corequisite: AGC 501, or equivalent

An advanced study in the logic of and empirical inquiry with regard to: producer behavior and choice among combinations of factors and kinds and quantities of output; aggregative consequences of individuals' and firms' decisions in terms of product supply and factor demand; factor markets and income distribution; general interdependency among economic variables of any economy.

Mr. Williamson

AGRICULTURAL EDUCATION

AGC 642 ECONOMICS OF CONSUMPTION, DEMAND, AND MARKET INTERDEPENDENCY

3 (3-0) s

Prerequisite: AGC 641

An advanced theory of, and research into, household behavior; aggregative consequences of household decisions concerning factor supply and product demand; pricing and income distribution; economic equilibrium.

Mr. King

AGC 651 (ST 651) ECONOMETRIC METHODS I

3 (3-0) f

Prerequisites: ST 514; 521; AGC 641 and 642

A theoretical framework for analysis of the causal forces in economic theories. Problems of model construction. Special techniques for analyzing simultaneous economic relations.

Staff

AGC 652 (ST 652) ECONOMETRIC METHODS II

3 (3-0) s

Prerequisites: ST 514; 522; AGC 641 and 642

Basic concepts of estimation and tests of significance as applied to economic data. Empirical sampling methods. Non-parametric methods; sequential testing. Extension of least squares methods to research in economics; production surfaces. Special topics in variance components and mixed models. Use of experimental designs in economic research. Elements of multivariate analysis. Techniques for analysis of time series.

Mr. Anderson

AGC 671 ANALYSIS OF ECONOMIC DEVELOPMENT IN AGRICULTURE

3 (3-0) f

Prerequisite: AGC 642

A theoretical framework for analysis of the causal forces and the structural interdependencies under conditions of economic change; major problems likely to be encountered in empirical endeavor.

Mr. McPherson

AGRICULTURAL EDUCATION

COURSES FOR UNDERGRADUATES

ED 101—AED I INTRODUCTION TO AGRICULTURAL EDUCATION

1 (1-0) f

A study of the job ahead, in college and as a teacher of vocational agriculture, present program in North Carolina.

ED 102—AED II OBJECTIVES IN VOCATIONAL AGRICULTURE

1 (1-0) s

Purpose of vocational agriculture in the school program. Relation of objectives and evaluation. Financing vocational agriculture. Emphasis on the local school community as a setting for a program of vocational agriculture. Advantages of being a part of the public school.

ED 201—AED III FFA IN VOCATIONAL AGRICULTURE

1 (1-0) f s

Purposes of Future Farmers of America (FFA) in vocational agriculture. Relationship of FFA to supervised farming program. Developing leadership through FFA.

ED 313 ORGANIZING PROGRAMS OF VOCATIONAL AGRICULTURE

3 (3-0) s

Essentials of an effective program of vocational agriculture. Developing the program in the local community. Role of the teacher in developing the local program.

ED 411 STUDENT TEACHING IN AGRICULTURE

6 (3-12) f

The first seven weeks will be on campus, thereafter in selected schools. These schools will be selected and assigned, then visited by the students. Using the program in his selected school as a guide, the student will study methods of teaching vocational agriculture, including techniques of teaching, selecting and using reference materials, supplies, equipment and visual aids; organizing and conducting farming programs, FFA adult and young farmer classes and other phases of the vocational agriculture program. The student will plan effectively for student teaching in his selected school.

For the remainder of the semester, the student lives in his selected community. He takes part, and gets experience, in all phases of the vocational agriculture program. His student teaching is supervised by members of the staff in Agricultural Education and the local vocational agriculture teacher.

Note: 1. A student must have a "C" average at the time he registers for this course.

2. **Summer Practice**—During the summer prior to the year in which students register for Student Teaching, they will spend two weeks in a vocational agriculture department. It is recommended that one week be before the fall school term begins and the other week immediately following the opening of the school term.

AGRICULTURAL EDUCATION

ED 412 TEACHING ADULTS

2 (1-2) f

Principles of effective teaching applied to adult and young farmers. Experience in organizing and conducting groups for discussion of local problems.

ED 413 DEVELOPING AND USING TEACHING MATERIALS

2 (1-2) f

Developing and using teaching materials for more effective instruction. Experience in this area with adult and high school classes.

ED 430 SENIOR SEMINAR

1 (1-0) s

Prerequisite: ED 411

An analysis of the job of the teacher of vocational agriculture with particular emphasis upon current problems.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ED 554 PLANNING PROGRAMS OF VOCATIONAL AGRICULTURE

3 (3-0) f s

Consideration of the community as a unit for planning programs in agricultural education; objectives and evaluation of community programs; use of advisory groups; school and community relationships; organization of the department and use of facilities.

ED 558 SPECIAL PROBLEMS IN TEACHING

3 (3-0) f s

Opportunities for students to study particular problems in teaching under the guidance of the staff. (Maximum of 6 credits)

ED 563 EFFECTIVE TEACHING

3 (3-0) f s

Analysis of the teaching-learning process; assumptions that underlie course approaches; identifying problems of importance; problem solution for effective learning; relationship of learning and doing; responsibility for learnings; evaluation of teaching and learning; making specific plans for effective teaching.

ED 568 ADULT EDUCATION IN AGRICULTURE

3 (3-0) f s

Designed to meet the needs of teachers as leaders in adult education. More emphasis is being given to working with adults as part of the community program of vo-ag. This course will give the teacher an opportunity to study some of the basic problems and values in working with adult groups. Particular attention will be given to the problem of fitting the educational program for adults into the high school program of vo-ag, as well as to methods of teaching adults.

COURSES FOR GRADUATES ONLY

ED 616 ADVANCED PROBLEMS IN TEACHING

3 (3-0) f s

Prerequisite: Advanced graduate standing

Group and individual study in current and advanced problems in the teaching and administration; evaluation of procedures and consideration for improving. (Maximum of 6 credits)

ED 617 PHILOSOPHY OF AGRICULTURAL EDUCATION

3 (3-0) f s

An examination of current educational philosophies and their relation to agricultural education. Principles and practices involved in the leadership of a teacher of agriculture and in making his work more effective in a rural community. Study of leaders in the field.

ED 618 SEMINAR IN AGRICULTURAL EDUCATION

1 (1-0) f s

A critical review of current problems, articles, and books of interest to advanced students in agricultural education. (Maximum of 2 credits)

ED 621 RESEARCH IN AGRICULTURAL EDUCATION

3 (3-0) f s

Prerequisite: Advanced graduate standing

Individual direction in research on a specific problem of concern to the student. Generally, the student is preparing his thesis or research problem. (Maximum of 6 credits)

ED 664 ADMINISTRATION OF AGRICULTURAL EDUCATION

3 (3-0) f s

Prerequisite: Advanced graduate standing

Organization, administration, evaluation and possible improvement of present practices, theory, principles and techniques of effective administration in agricultural education at different levels.

— — — — — AGRICULTURAL ENGINEERING

COURSES FOR UNDERGRADUATES

AGE 151 FARM MECHANICS

4 (2-6) f

Prerequisite: Freshman in Agricultural Engineering or Mechanized Agriculture
Lecture and laboratory practice in woodworking, concrete, and masonry work as applied to the design and construction of farm buildings, sharpening tools, plumbing, sheet metal and cold metal work; and electric and oxy-acetylene welding as applied to fabrication and repair work around the farm.

Messrs. Howell, Blum

AGE 201 FARM SHOP WOODWORK

2 (1-3) f s

Lecture and laboratory practice in blueprint reading, sketching, and drawing, making bills of materials, farm shop planning, sharpening and fitting tools, use of hand and power tools in repairing farm buildings and appliances.

Messrs. Howell, Blum

AGE 202 FARM SHOP METALWORK

2 (1-3) f s

Lecture and laboratory practice in sheet metalwork, cold metalwork, arc and oxy-acetylene welding, and farm shop planning.

Messrs. Howell, Blum

AGE 211 FARM POWER AND MACHINERY I

3 (2-2) f s

A study of modern farm machinery, power units and equipment with emphasis on selection, operation, maintenance, care, and adjustments from the operator's viewpoint.

Mr. Bowen

COURSES FOR ADVANCED UNDERGRADUATES

AGE 302 AGRICULTURAL DRAWING

2 (0-6) f s

This is a course designed to study drawing-board work including sketching, elementary mechanical drawing, working drawings, lettering, tracing, blueprint reading, reproduction processes, and job planning.

Mr. Parker

AGE 321 IRRIGATION, DRAINAGE AND TERRACING

3 (2-3) f s

4 (2-6) f

Prerequisite: CE 201 for 4 credit course

Needs for irrigation in the Southeast and methods of accomplishment; methods of draining excess water from agricultural areas; the use of basic surveying equipment; and the need for and methods of accomplishing erosion control by mechanical measures to supplement vegetative programs.

Mr. Wilson

AGE 331 DAIRY ENGINEERING

3 (2-3) s

Prerequisite: PY 211

This course embodies the application and maintenance of power, heating, and refrigeration to equipment and controls used in dairy manufacturing.

Mr. Parker

AGE 332 FARM BUILDINGS AND CROP PROCESSING

3 (2-3) f

4 (2-6) f

Prerequisite: EM 341 for 4 credit course

Construction materials, structural features, and design loads. Functional planning of farm buildings for housing domestic animals and for storing and handling farm crops. Curing and drying of farm crops.

Mr. Parker

AGE 341 FARM ELECTRIFICATION AND UTILITIES

3 (2-2) f

4 (2-4) f

Prerequisite: J Union standing

Problems and general study in the proper selection and use of applicable farm electric equipment and allied utilities.

Messrs. Weaver, Blum

AGE 371 SOIL AND WATER CONSERVATION ENGINEERING

4 (3-3) f

Prerequisites: CE 201, Soils 200

General aspects of agricultural hydrology, including precipitation, classification of climate, rainfall disposition, methods of estimating runoff, fundamental soil and water relationships, and hydraulics of flow in open channels and closed conduits, will be given. Included also are factors affecting erosion, methods of controlling erosion, land use classification, drainage, land clearing, irrigation methods, design requirements for portable irrigation systems, and economic aspects of irrigation in the Southeast.

Mr. Wilson

AGRICULTURAL ENGINEERING

AGE 401 FARM SHOP ORGANIZATION AND MANAGEMENT

3 (2-2) f s

Prerequisites: AGE 201 and 202

The use and care of power tools; planning of school shops and laboratories; selection of tools, materials, and equipment; shop management; and methods of presenting the subject matter.

Messrs. Howell, Blum

AGE 411 FARM POWER AND MACHINERY IIB

3 (2-3) s

Prerequisite: AGE 211

This course is designed to provide students in Mechanized Agriculture with a knowledge of the operations of manufacturing and distributing organizations of farm machinery and their places in these organizations. Included is a practical course in farm tractors and engines with emphasis on familiarizing the student with component parts—their application, operation, and maintenance, as well as with the selection of these units from the standpoint of power, performance, and ratings.

Messrs. Bowen, Greene

AGE 451 CURING AND DRYING OF FARM CROPS

2 (1-2) f

Prerequisite: ME 301, EM 430 or taken concurrently

Physical properties of air, fuels, and crop products as applied to the design of systems for the removal of moisture from crops. Problems involved in handling and storage in conjunction with driers.

Mr. Parker

AGE 452 SENIOR SEMINAR

1 (1-0) f s

Students will prepare talks in their particular field of interest, presenting them to the group. Also, two or three field trips to selected points of educational opportunities will be made during the second semester. Maximum of two credits allowed.

Mr. Giles and Staff

AGE 462 FARM POWER AND MACHINERY IIA

4 (3-3) f

Prerequisites: AGE 211; EM 321

A study of the basic principles underlying the functional elements of farm machinery, including analysis of operation, functions of various components, basic studies of processes, and the service adjustment and operation of current farm equipment. The course also includes a fundamental study of internal combustion engines and power trains to the various outlets; basic designs and applications of farm tractors, including hitches, power lifts, and other integral parts.

Messrs. Bowen, Greene

AGE 481 FARM STRUCTURES

4 (3-3) s

Prerequisites: AGE 451 and EM 321

Space and grouping arrangements, material use, and construction techniques to gain optimum efficiency, use, and satisfaction from buildings on the farm. The design of walls and wall coverings to impair the transfer of heat and moisture. The design of building elements and their connections to withstand their imposed loads.

Mr. Parker

AGE 491 RURAL ELECTRIFICATION

4 (3-3) f

Prerequisite: EE 320

A study of the history and development of rural electrification, rates and costs of serving the farm with electricity; farm wiring and lighting; electric motors; water systems; feed grinding and other applications of electricity to farming. Also included for study are materials and design for rural distribution lines; switches and controls; heat and refrigeration; poultry and dairy equipment; and other applicable uses of electricity in farm processes.

Mr. Weaver

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

AGE 551 SPECIAL PROBLEMS

Credits by arrangement

Prerequisite: Senior or Graduate standing in Agricultural Engineering.

Each student will select a subject on which he will do research and write a technical report on his results. He may choose a subject pertaining to his particular interest in any area of study in Agricultural Engineering.

Mr. Giles and Staff

AGE 552 INSTRUMENTATION FOR AGRICULTURAL RESEARCH AND PROCESSING

1 (0-2) f or s

Prerequisite: PY 403

Elaboration of the theory and principles of various primary sensing elements. Relates the output signal of electrical transducers to wheatstone bridge and potentiometer measuring circuits for calibration of the signal with the variable under study. Introduces the principles of circuits and mechanisms used for indicating, recording, and/or controlling process variables. Representative equipment will be employed whenever feasible.

Mr. Hassler

COURSES FOR GRADUATES ONLY

AGE 651 RESEARCH IN AGRICULTURAL ENGINEERING

Credits by arrangement

Prerequisite: Graduate status in Agricultural Engineering
Performance of a particular investigation of concern to Agricultural Engineering. The study will begin with the selection of a problem and culminate with the presentation of a thesis. A maximum of six credits is allowed towards a Masters Degree; no limitation on credits in Doctorate program.

Mr. Giles and Staff

AGE 652 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

Elaboration of subject areas, techniques and methods peculiar to professional interest through presentations of personal and published works, opportunity for students to present and defend their ideas, concepts, and inferences. A maximum of two credits may be earned.

Mr. Hassler

AGE 654 AGRICULTURAL PROCESS ENGINEERING

3 (3-0) f or s

Prerequisites: AGE 451, PY 402, MA 511

Operations employed during processing for maximizing consumer quality and economic gain. Agricultural processing operations are analyzed on a "unit operation" basis, taking into consideration physical and chemical changes. Generalized physical theory will be presented as it relates to idealizations in agricultural processing.

Mr. Hassler

AGE 661 ANALYSIS OF FUNCTION AND DESIGN OF FARM MACHINERY 3 (2-3) f or s

Prerequisites: AGE 462, MA 401, PY 401, 3 hours of statistics

Principles and theories for establishing and interpreting the following: (1) functional requirements of machine components, and (2) discriminate and indiscriminate mechanical selection of agricultural products.

Mr. Bowen

AGE 671 THEORY OF DRAINAGE, IRRIGATION AND EROSION CONTROL 4 (3-3) f or s

Prerequisites: AGE 371; EM 430, MA 401, SOI 511

Emphasis is placed on the physical and mathematical aspects of problems in conservation engineering and an attempt is made to rationalize procedures which have often come about through experience rather than through analytical considerations. Examples are presented of cases where such an analytical approach has already improved, or shows promise of improving, design criteria and procedures.

Messrs. van Schilfgaarde, Wilson

AGE 681 ANALYSIS OF FUNCTION AND DESIGN OF FARM BUILDINGS 4 (4-0) f or s

Prerequisites: AGE 481 and PY 402

Functional requirements of farm structures with respect to man, animal and crop, and development of the means for providing structures which fulfill the functional requirements. Environmental problems and planning for integration of structural, environmental, and economical design.

Mr. Parker

AGRICULTURE

AG 101 AGRICULTURE AND WORLD AFFAIRS

3 (2-2) f

A required course for Freshmen in the School of Agriculture except those in Agricultural and Biological Chemistry. This course deals with the agriculture and agricultural regions of the United States. It also deals with population trends and densities in relation to food production and other natural resources throughout the world.

AG 301 AGENCIES AND PROGRAMS FOR AGRICULTURE

2 (2-0) s

A study of the major educational and service agencies designed to advance agriculture and rural living. The development of agricultural problems in the United States is traced as a background for consideration of the objectives, organization, and procedures of these agencies and programs.

Mr. Sloan

AG 401 PRINCIPLES AND METHODS OF EXTENSION EDUCATION

3 (3-0) s

Prerequisite: Senior standing. Graduate credit in special cases with permission of committee)

A study of the background, development, and operation of the Agricultural Extension Service. Consideration is given to major events leading to the establishment of Agricultural Extension, its objectives, organization and philosophy. Major emphasis is placed upon the principles underlying Extension education together with methods of program building and teaching.

Mr. Sloan

ANIMAL INDUSTRY— — — — —

COURSES FOR UNDERGRADUATES

AI 201 ELEMENTS OF DAIRY SCIENCE 4 (3-3) f s
Fundamental principles of milk production; breeds, selection, feeding and management of dairy cattle; composition, quality and food value of milk products; principles of processing and manufacturing dairy products.

Messrs. Haig, Warren

AI 202 FUNDAMENTALS OF ANIMAL HUSBANDRY 4 (3-3) f s
Principles of feeding, managing and marketing meat animals. Year to year and seasonal price trends and relationships. Relation of slaughter grades to carcass cut-out values.

Mr. Goode

AI 301 GRADING AND SELECTING MEAT ANIMALS 2 (0-6) s
Study of breed characteristics and type by species. Market classes and grades of beef cattle, sheep and hogs relating live animal grade to carcass grade and cut-out value.

Mr. Goode

AI 303 MEAT AND MEAT PRODUCTS 3 (1-6) f s
Study of live animal and carcass relationships, dressing percentages and cut-out values. Slaughtering, cutting, curing, freezing and handling of meat and meat products for commercial and home use.

Messrs. Blumer, Brown

AI 305 JUDGING AND SELECTION—DAIRY CATTLE 2 (0-6) f
Breed characteristics, score-card requirements and adaptability to North Carolina of the 5 major dairy breeds. Practice judging with oral reasons.

Mr. Murley

AI 306 ADVANCED JUDGING AND SELECTION—DAIRY CATTLE 1 (0-3) s
Prerequisite: AI 305
Advanced judging with emphasis on oral reasons and show-ring requirements, trips to leading farms. Only students working for place on judging team will take this course.

Mr. Murley

AI 307 ADVANCED JUDGING AND SELECTION—GENERAL LIVESTOCK 1 (0-6) f
Prerequisite: AI 301
Advanced course stressing the importance of methods in making rapid and accurate observations. Sets up standards of animal excellence and provides practice in oral reasons.

Mr. Gregory

AI 309 MEAT SELECTION 1 (0-6) f
Detailed consideration of factors involved in selection of carcasses and wholesale cuts of beef, pork and lamb. Practice in identification of wholesale and retail cuts.

Mr. Blumer

AI 312 PRINCIPLES OF LIVESTOCK NUTRITION 3 (3-0) s
Prerequisite: CH 351 and ZO 301
Fundamentals of modern animal nutrition, including classification of nutrients, their general metabolism and roles in productive functions.

Mr. Wise

AI 401 BEEF CATTLE PRODUCTION 3 (2-3) f s
Prerequisite: AI 203
Fundamental principles of the production of beef; selection, feeding and management of breeding herds and feeder cattle.

Mr. Barrick

AI 402 SHEEP PRODUCTION 3 (2-3) f s
Prerequisite: AI 203
Study of the factors involved in the feeding, breeding, management and marketing of lamb, mutton and wool.

Mr. Goode

AI 403 PORK PRODUCTION 3 (2-3) f s
Prerequisite: AI 203
Study of production, management and marketing practices involved in the successful production of swine.

Mr. Clawson

ANIMAL INDUSTRY

AI 404 DAIRY FARM PROBLEMS

3 (2-3) s

Prerequisite: AI 201

Advanced study of practical dairy farm management including farm records, farm buildings, sanitation, roughage utilization and herd culling.

Mr. Murlov

AI 406 ANIMAL INDUSTRY SEMINAR

1 (1-0) s

Review and discussion of special topics and the current literature pertaining to all phases of animal production.

Mr. Pou

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

AI 501 PHYSIOLOGY OF DOMESTIC ANIMALS

4 (3-3) f

Prerequisite: ZO 301

A course in advanced physiology of domestic mammals with special reference to farm animals.

Messrs. Casady and Thomas

AI 502 REPRODUCTION AND LACTATION

4 (3-3) s

Prerequisite: ZO 301

Anatomy and physiology of the reproductive organs and mammary glands with detailed coverage of physiological processes involved and factors controlling and influencing them. Specific applications to farm animals including artificial insemination.

Messrs. Casady and Myers

AI 503 ANIMAL BREEDING

3 (2-3) f s

Prerequisite: GN 411

Traits of economic importance in livestock production, and their mode of inheritance. Phenotypic and genetic relationships between traits. The place of selection, inbreeding and crossbreeding in a program of animal improvement.

Mr. Dillard

AI 505 DISEASES OF FARM ANIMALS

3 (3-0) f

Prerequisite: Approval of instructor

The pathology of bacterial, virus, parasitic, nutritional and thermal diseases, and mechanical disease processes.

Mr. Osborne

AI 507 TOPICAL PROBLEMS IN ANIMAL INDUSTRY

Max. 6 f s

Special problems may be selected or assigned in various phases of Animal Industry. A maximum of six credits is allowed.

Staff

AI 513 NEEDS AND UTILIZATION OF NUTRIENTS BY LIVESTOCK

3 (3-0) f

Prerequisite: AI 312 or equivalent

Measurement of nutrient needs of livestock and the nutrient values of feeds. Nutritive requirements for productive functions.

Mr. Wise

COURSES FOR GRADUATES ONLY

AI 600 RESEARCH IN ANIMAL INDUSTRY

Credits by Arrangement f s

A maximum of six hours is allowed toward the Master's degree; no limitation on credits in Doctorate programs.

Staff

AI 601 SEMINAR IN ANIMAL NUTRITION

1 (1-0) f s

Prerequisite: Permission of seminar leaders

Orientation in philosophy of research, organization for research in agriculture, and general research methodology.

Nutrition Staff

AI 602 ADVANCED ANIMAL BREEDING

3 (Arranged) 3

Prerequisite: Statistics 625

A study of the forces influencing gene frequencies, inbreeding and its effects, and alternative breeding plans.

Mr. Legates

AI 603 ANIMAL NUTRITION: MINERAL METABOLISM

3 (3-0) f

Prerequisite: AI 312 or CH 452

Role of minerals in the nutrition of animals with emphasis on available knowledge, a digest of progress already made and directions in which investigations need to be extended.

Mr. Matrone

* Offered in odd calendar years.

ARCHITECTURE—BIOLOGY—BOTANY

AI 621 (CH 621) ENZYMES AND INTERMEDIARY METABOLISM

4 (3-4) f

Prerequisites: CH 511 and permission of instructor

A study of the properties of enzymes and enzyme action; intermediary metabolism of carbohydrates, amino acids, fatty acids, vitamins, purines and phosphorus; metabolic energy relationships.

Mr. Tove

AI 623 (CH 623) BIOLOGICAL ASSAY OF VITAMINS

3 (2-2) s

Prerequisites: CH 551 or AI 312, ST 512

Techniques and designs of biological assays for vitamins. The interrelationship of logical principles, design and analysis is emphasized.

Staff

ARCHITECTURE — — — — —

COURSES FOR UNDERGRADUATES

ARC 101-102 INTRODUCTION TO ARCHITECTURE

2 (1-3) f s

The application of the basic principles and fundamentals of design to architecture. The elements of descriptive geometry, architectural shades and shadows and perspective.

ARC 301-302 ARCHITECTURAL DESIGN I, II

6 (3-12) f s

Prerequisites: Design 202-212, EM 311, PY 212

Required of all third year students in Architecture. Relationship of exterior and interior spaces. Structure as a primary and essential element in construction and design.

Mr. Caminos and Mr. Adams

ARC 401-402 ARCHITECTURAL DESIGN III, IV

6 (3-12) f s

Prerequisites: ARC 302, CE 339, EM 321

Required of all fourth year students in Architecture. A study of architectural design process as applied to larger buildings and groups of buildings. Introductory exercise in theory and practice of physical city planning.

Mr. Matsumoto

ARC 501-502 ARCHITECTURAL DESIGN V, VI

6 (3-12) f s

Prerequisites: ARC 402, CE 436

Required of all fifth year students in Architecture. Architectural Research Design.

Mr. Catalano

BIOLOGY — — — — —

BO 301 FUNDAMENTALS OF BIOLOGY

3 (3-0) s

A survey of the major principles of the biological sciences. A course designed for students who have not had a college course in the biological sciences and who do not anticipate further study in biology. Not acceptable as a prerequisite for further work in the biological sciences.

Mr. Evers

BOTANY — — — — —

COURSES FOR UNDERGRADUATES

BO 101 GENERAL BOTANY

3 (3-0) f s

An introductory study of the structure, physiology and ecology of high green plants.

Staff

BO 102 GENERAL BOTANY

3 (3-0) f s

Prerequisite: BO 101

A study of sexual reproduction and heredity in the flowering plants; a survey of the life histories of the major groups of non-green and green plants.

Staff

BO 203 INTRODUCTION TO SYSTEMATIC BOTANY

3 (0-6) s

Prerequisite: BO 101

An introduction to the local flora and the classification of the plants included therein.

Messrs. Beal and Wilbur

BOTANY

BO 211, 212 DENDROLOGY

2 (1-3) f s

Prerequisites: BO 102

Must be taken in the order listed except by permission.

A systematic survey of the principal hardwood (angiosperm) and evergreen (gymnosperm) genera and species of North American trees. Emphasis will be upon those of commercial importance and particularly those in the eastern United States.

Mr. Wilbur

BO 410 PLANT HISTOLOGY AND MICROTECHNIQUE

3 (1-6) f

Prerequisites: BO 102; CH 203

Studies of the principal tissues of Angiosperms in terms of the theory and practice of optical instrumentation, microtechnical preparations, and photomicrography.

Mr. Ball

BO 412 GENERAL BACTERIOLOGY

4 (2-4) f s

Prerequisites: BO 102 (or ZO 101); CH 101

Open to upperclassmen in Sanitary Engineering with only a chemistry prerequisite

A study of the fundamental concepts and techniques of microbiology; isolation, cultivation, observation, morphology, physiology and nutrition of microorganisms.

Mr. Borg

BO 421 PLANT PHYSIOLOGY

4 (2-4) f s

Prerequisites: BO 102; CH 203

An introductory treatment of the chemical and physical processes occurring in higher green plants with emphasis upon the mechanism, factors affecting, correlations between processes, and biological significance.

Messrs. Anderson, Brun, Scofield

BO 441 PLANT ECOLOGY

3 (2-3) f

Prerequisite: BO 102

A study of the principles and factors determining the distribution of plants including discussion of the major groupings of plants into vegetational types.

Mr. Bourdeau

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

BO 512 MORPHOLOGY OF VASCULAR PLANTS

2 (1-3) f

Prerequisite: BO 102

A study of comparative morphology, ontogeny and evolution of the vascular plants. Emphasis is placed upon the phylogeny of sexual reproduction and of the vascular systems.

Mr. Ball

BO 513 PLANT ANATOMY

3 (2-2) s

Prerequisites: BO 102

A study of the anatomy of the Angiosperms and Gymnosperms. The development of tissues is traced from their origin by meristems to their mature states.

Mr. Ball

BO 521 SYSTEMATIC BOTANY OF MONOCOT FAMILIES

3 (0-6) f

Prerequisites: BO 102, 203

A comprehensive survey of the systematics of monocot families with special emphasis on grasses. Terminology, identification, relationships and economic significance are stressed.

Mr. Beal

BO 523 SYSTEMATIC BOTANY OF DICOT FAMILIES

3 (0-6) s

Prerequisites: BO 102, 203

A comprehensive survey of the systematics of dicot families. Emphasis is given to the history of systematics, its significance and relation to other disciplines, the principles of plant classification, major systems of classification and the International Rules of Botanical Nomenclature.

Mr. Wilbur

BO 532, 533 ADVANCED PLANT PHYSIOLOGY

2 (2-0) f s

Prerequisites: BO 421 or equivalent

An advanced treatment of metabolism and growth in higher green plants with emphasis upon the theoretical principles which form the basis for interpretations.

Mr. Brun

BO 545 ADVANCED PLANT ECOLOGY

3 (2-3) s

Prerequisites: BO 421, 441 or equivalent

An advanced discussion of the principles, theories and methods of plant ecology.

Mr. Bourdeau

CERAMIC ENGINEERING

BO 573 AQUATIC BOTANY

3 (1-6) s

Prerequisite: BO 102

A discussion of the taxonomy and ecology of the aquatic plants including the important fresh-water algae, aquatic bacteria, fungi, water "ferns," mosses and liverworts, and the important genera of flowering plants.

Mr. Whitford

COURSES LIMITED TO GRADUATE STUDENTS

BO 635 THE MINERAL NUTRITION OF PLANTS

3 (2-3) s

Prerequisite: BO 421

Discussion of the accumulation, translocation and utilization of mineral elements by higher plants. Emphasis will be placed on the relationships between these processes and plant metabolism.

Mr. Evans

BO 650 SPECIAL PROBLEMS IN BOTANY

Credits by Arrangement f s

Graduate students in fields allied to Botany may conduct intensive study of a problem in some specialized phase of botany.

Graduate Staff

BO 651 RESEARCH IN BOTANY

Credits by Arrangement f s

Graduate student majors in Botany undertake research problems preparatory to writing a Master's Thesis or a PhD Dissertation.

Graduate Staff

BO 661 BOTANY SEMINAR

1 (1-0) f s

Graduate student credit allowed if one paper per semester is presented at the Seminar.

CERAMIC ENGINEERING

COURSES FOR UNDERGRADUATES

MIC 120 - Intro. to Ceramics

MIC 200 INTRODUCTION TO CERAMICS

1 (1-0) f s

Historical notes and quality characteristics of such ceramic products as glass, enamels, pottery, brick, tile and cements. Industrial classification, scientific developments, economic and cultural importance. Lectures.

MIC 301 - Ceramic Operations I

MIC 301 CERAMIC OPERATIONS I

4 (3-3) f

Unit operations pertaining to ceramic product manufacture. Crushing, grinding, particle size classification and packing. Colloidal and rheological properties of slips, slurries and plastic masses. Lectures and laboratory.

MIC 302 CERAMIC OPERATIONS II

3 (2-3) s

Prerequisites: MIC 301 and Ph 201

A continuation of MIC 301. Dewatering of slips and slurries. Properties of air and air-vapor mixtures, heat transmission, fluid flow, drying, drier calculations. Lectures and laboratory.

MIC 312 CERAMIC PROCESS PRINCIPLES I

4 (3-3) f

Corequisite: MIC 302

Principles of combustion, heat transfer. Introduction to pyrochemical and physicochemical changes in ceramic materials. Measurements, controls and calculations of furnaces and kilns. Lectures and laboratory.

MIC 413 CERAMIC PROCESS PRINCIPLES II

4 (3-3) f

Prerequisites: MIC 312 and CH 532

A continuation of MIC 312. Introduction to crystal chemistry and the constitution of glass. Consideration of special problems relating to glasses, glazes and enamels, including opacity and color. Applications of the principles of phase equilibria with particular reference to refractories. Lectures and laboratory.

MIC 414 SENIOR THESIS

3 (1-6) f s

One semester required of seniors in Ceramic Engineering. A second semester may be elected

An introduction to research. Literature search, laboratory investigation and written report in the form of a thesis. Conference and laboratory.

MIC 415, 416 CERAMIC ENGINEERING DESIGN

2 (0-6) f s

The methods of ceramic equipment, structures and plant designing.

MIC 420 INDUSTRIAL CERAMICS

3 (3-0) s

A study of the various ceramic industries, including manufacturing techniques, labor and professional relationships, and the present and future status of the respective industries. Lectures and discussion.

CERAMIC ENGINEERING

MIC 425 SEMINAR

1 (1-0) f s

One semester required of seniors in Ceramic Engineering. A second semester may be elected.

Literature survey of selected topics in ceramic engineering. Oral and written reports, discussions.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

MIC 503 CERAMIC MICROSCOPY

3 (2-3) f s

Prerequisite: MIC 531

Petrographic techniques for the systematic study of ceramic materials and products. Interpretation and representation of results.

MIC 505 RESEARCH AND CONTROL METHODS

3 (2-3) f s

Lectures, demonstrations and experiments on instrumental methods of ceramic investigation.

MIC 507, 508 ADVANCED CERAMIC EXPERIMENTS

3 (1-6) f s

Prerequisite: MIC 414 or equivalent

Advanced studies in ceramic laboratory experimentation.

MIC 511 ADVANCED STUDIES IN FIRING

3 (2-3) f s

Advanced studies of ceramic firing procedures with emphasis on the design, calculation and economic evaluation of kilns and furnaces.

MIC 522 STRUCTURAL CLAY PRODUCTS

3 (3-0) s

Prerequisite: MIC 413

The technology of the structural clay products industries with emphasis on the latest developments in the field.

MIC 526 REFRACTORY TECHNOLOGY

2 (2-0) s

Prerequisite: MIC 413

The technology of refractory manufacture with emphasis on the latest advances in the field.

MIC 527 REFRACTORIES IN SERVICE

3 (2-3) f s

Prerequisite: Permission of instructor

A study of the physical and chemical properties of the more important refractories in respect to their environment in industrial and laboratory furnaces.

MIC 532 TECHNOLOGY OF ABRASIVES

2 (2-0) s

Prerequisite: Permission of instructor

The methods of manufacture, properties and application of abrasives to industrial grinding, cutting and polishing.

MIC 535, 536 ENAMELS AND PROTECTIVE COATINGS

3 (3-0) f s

Prerequisite: MIC 413

The technology of ceramic coatings for ferrous, aluminum and special high temperature alloys used for domestic appliances, structural members aircraft parts, etc.

MIC 540 GLASS TECHNOLOGY

3 (3-0) s

Prerequisite: MIC 413

Fundamentals of glass manufacture including compositions, properties and applications of the principle types of commercial glasses.

MIC 543, 544 TECHNOLOGY OF THE WHITEWARE INDUSTRIES

3 (3-0) f s

Prerequisite: MIC 413

Technology of whiteware bodies and glazes.

MIC 548 TECHNOLOGY OF CEMENTS

3 (3-0) s

Prerequisite: MIC 413

The technology of the Portland cement industry including manufacture, control and uses.

COURSES FOR GRADUATES ONLY

MIC 605, 606 CRYSTAL STRUCTURES

2 (2-0) f s

Basic laws of crystal structure. Relation of crystal structure to chemical and physical properties.

MIC 613 CERAMIC THERMAL MINERALOGY

3 (3-0) s

Prerequisite: MIC 605

Applications of the principles of thermalchemical mineralogy to ceramic problems.

MIC 650 CERAMIC RESEARCH

1 to 9 credits
per semester

An original and independent investigation in ceramic engineering. A report of such an investigation is required as a graduate thesis.

CHEMICAL ENGINEERING

MIC 660 CERAMIC ENGINEERING SEMINAR

1 (1-0) f s

Reports and discussion of special topics in ceramic engineering and allied fields.

MIC 661, 662 SPECIAL STUDIES IN CERAMIC ENGINEERING

1 to 3 credits
per semester

Special studies of advanced topics in ceramic engineering. Credit will vary with the topic.

CHEMICAL ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

CHE 205 CHEMICAL PROCESS PRINCIPLES I

4 (3-2) f

Prerequisite: PY 201

Required of sophomores in Chemical Engineering

An introduction to material and energy balances, stoichiometry, gas laws, vapor pressure, humidity, saturation, thermophysics and thermochemistry. Three lectures and one problem period.

CHE 301, 302 ELEMENTS OF CHEMICAL ENGINEERING

3 (3-0) f s

An introduction to principles of chemical engineering including calculations involved in industrial processes and equipment. The course is designed for students not majoring in chemical engineering.

CHE 311 CHEMICAL PROCESS PRINCIPLES II

3 (3-3) s

Prerequisite: CHE 205

Required of juniors in Chemical Engineering

A continuation of CHE 205. One laboratory period is devoted to typical chemical engineering measurements.

CHE 411 UNIT OPERATIONS I

3 (3-0) s

Prerequisite: CHE 311

Required of juniors in Chemical Engineering

Principles of fluid flow, heat transfer, evaporation, etc., with emphasis on design calculations.

CHE 412 UNIT OPERATIONS II

4 (4-0) f

Prerequisite: CHE 411

Required of seniors in Chemical Engineering

A continuation of CHE 411 with emphasis on the diffusional operations such as absorption, distillation, extraction, drying, etc.

CHE 415 CHEMICAL ENGINEERING THERMODYNAMICS

4 (3-2) f

Prerequisites: CH 531, CHE 311

Required of seniors in Chemical Engineering

A study of the laws of thermodynamics and their application to chemical engineering problems. Emphasis on the theory, data and approximation methods as applied to physical and chemical systems.

CHE 431, 432 UNIT OPERATIONS LABORATORY I AND II

3 (1-6) f s

Prerequisite: CHE 411

Required of seniors in Chemical Engineering

Laboratory work on typical apparatus involving the unit operations. Experiments are designed to augment the theory and data of the lecture courses and to develop proficiency in the writing of technical reports.

CHE 453 CHEMICAL PROCESSING OF RADIOACTIVE MATERIALS

3 (3-0)

Consideration of the unique procedures required for the bulk manipulation of radioactive chemicals. Particular attention is given to remote operational procedures of precipitation, centrifugation, conveying, solvent extraction and ion exchange. Design of apparatus involving low maintenance and ease of replacement and cleaning by safe methods is considered. Other topics include decontamination procedures and disposal of wastes.

CHE 460 SEMINAR

1 (1-0) f s

One semester required of seniors in Chemical Engineering.

Literature survey of selected topics in chemical engineering. Emphasis on written and oral presentation.

CHE 470 CHEMICAL ENGINEERING PROJECTS

2 Arrange f s

One semester required of seniors in Chemical Engineering

Introduction to research through experimental, theoretical and literature studies of chemical engineering problems. Oral and written presentation of reports.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

CHE 525 PROCESS MEASUREMENT AND CONTROL

3 Arrange f s

Prerequisite: CHE 411

Theory and application of methods for measuring, transmitting, recording and controlling such process variables as temperature, pressure, flow rate, liquid level, concentration, humidity etc. Commercial instruments are utilized for study of a wide variety of industrial control problems. Recorder-controllers are available for simulating industrial control problems of varying difficulty.

CHE 527 CHEMICAL PROCESS ENGINEERING

3 (3-0) s

Prerequisite: CHE 412

A study of selected chemical processes with emphasis on the engineering, chemical and economic factors involved.

CHE 540 ELECTROCHEMICAL ENGINEERING

3 (3-0) s

Prerequisite: Physical Chemistry

The application of electrochemical principles to such topics as electrolysis, electroanalysis, electroplating, metal refining, etc.

CHE 541 CELLULOSE INDUSTRIES

3 (3-0) f

Prerequisite: Organic Chemistry

Methods of manufacture and application of cellulose chemical conversion products. Emphasis placed on recent development in the fields of synthetic fibers, films, lacquers, and other cellulose compounds.

CHE 542 TECHNOLOGY OF PULP AND PAPER

3 Arrange f

Prerequisite: Organic Chemistry

Fundamentals of pulp and paper manufacture with emphasis on recent advances in the field. One laboratory period per week is devoted to topics such as digestion and treatment of pulp, handsheet preparation and testing, fiber analysis, and chemical and physical tests.

CHE 543 TECHNOLOGY OF PLASTICS

3 (3-0) s

Prerequisite: Organic Chemistry

The properties, methods of manufacture, and application of synthetic resins. Recent developments in the field are stressed.

CHE 545 PETROLEUM REFINERY ENGINEERING

3 (3-0) s

Prerequisite: CHE 412

An introduction to the petroleum industry including (1) nature of petroleum and its fractions, octane numbers, viscosity relationships, etc., (2) operations of thermal and catalytic cracking, stabilization, alkylation isomerization, crude fractionation, etc., (3) problem work covering high pressure phase relationships, and related material.

CHE 546 CHEMICAL REACTION RATES

3 (3-0) f

Prerequisite: CHE 415

A basic study of the rates of homogeneous reactions, heterogeneous reactions, and catalysis.

CHE 570 CHEMICAL ENGINEERING PROJECTS

3 Arrange f s

Prerequisite or concurrent: CHE 412

A laboratory study of some phase of chemical engineering or allied field.

COURSES FOR GRADUATES ONLY

CHE 610 HEAT TRANSFER I

3 (3-0) f

Prerequisite: CHE 411

An advanced course dealing primarily with heat transfer between liquids and solids, optimum operating conditions and design of equipment, conduction, heating and cooling of solids, radiant heat transmission.

CHE 611 HEAT TRANSFER II

2 (2-0) s

Prerequisite: CHE 610

An intensive study of recent advances in heat transfer and allied fields.

CHE 612 DIFFUSIONAL OPERATIONS

3 (3-0) f

Prerequisite: CHE 412

An advanced treatment of mass transfer particularly as applied to absorption, extraction, drying, humidification and dehumidification.

CHE 613 DISTILLATION

3 (3-0)

Prerequisite: CHE 412

Vapor-liquid equilibria of non-ideal solutions, continuous distillation of binary and multi-component systems, batch distillation, azeotropic and extraction distillation.

CHEMISTRY

CHE 614 DRYING OF SOLIDS

2 (2-0)

Prerequisite: CHE 412

An advanced course on the mechanism of drying operations with application to design of equipment, such as cabinet, tunnel, rotary, drum and spray driers.

CHE 615 THERMODYNAMICS I

3 (3-0)

Prerequisite: CHE 415

Advanced topics in Chemical Engineering thermodynamics including equilibria of physical and chemical systems, high pressure systems, generalized properties of hydrocarbons, etc.

CHE 616 THERMODYNAMICS II

2 (2-0) s

Prerequisite: CHE 615

An intensive study of recent advances in thermodynamics.

CHE 617 CATALYSIS OF INDUSTRIAL REACTIONS

3 (3-0)

Prerequisite: CHE 546

A study of the mechanism of catalysis with emphasis on practical application to operation and design of industrial processes.

CHE 631, 632 CHEMICAL PROCESS DESIGN

3 (3-0) f s

Prerequisite: CHE 412

Design and selection of process equipment, through solution of comprehensive problems involving unit operations, kinetics, thermodynamics, strength of materials and chemistry.

CHE 641, 642 ADVANCED CHEMICAL ENGINEERING LABORATORY

3 Arrange f s

Prerequisite: CHE 412

Advanced laboratory work in a selected field with emphasis on theory, techniques and performance of equipment.

CHE 650 ADVANCED TOPICS IN CHEMICAL ENGINEERING

1 to 3 credits
per semester f s

A study of recent developments in chemical engineering theory and practice, such as ion exchange, crystallization, mixing, molecular distillation, hydrogenation, fluorination, etc. The topic will vary from term to term

CHE 660 CHEMICAL ENGINEERING SEMINAR

1 credit
per semester f s

Literature investigations and reports of special topics in chemical engineering and allied fields.

CHE 680 CHEMICAL ENGINEERING RESEARCH

1 to 9 credits
per semester f s

Independent investigation of an advanced chemical engineering problem. A report of such an investigation is required as a graduate thesis.

CHEMISTRY — — — — —

COURSES FOR UNDERGRADUATES

CH 101 GENERAL INORGANIC CHEMISTRY

4 (3-2) f s

The language of Chemistry, fundamental chemical laws and theories, limited study of selected chemical elements, compounds, reactions and processes.

Staff

CH 103 GENERAL AND QUALITATIVE CHEMISTRY

4 (3-2) f s

Prerequisite: CH 101

Homogeneous and heterogeneous equilibrium, oxidation and reduction, metallurgy, fundamental properties of metals, non-metals, their compounds, introduction to organic and nuclear chemistry, industrial applications of some metals, non-metals, and their compounds. The laboratory work is entirely semimicro qualitative analysis.

Staff

CH 103 L SEMIMICRO QUALITATIVE ANALYSIS

1 (0-3) f s

Prerequisite: 1 year of General Chemistry not including Qualitative Analysis
Chiefly the laboratory work of CH 103.

CH 201 GENERAL INORGANIC CHEMISTRY

5 (3-6) f

Includes content of CH 101 supplemented by additional laboratory work.

Staff

CHEMISTRY

CH 203 GENERAL AND ORGANIC CHEMISTRY

4 (3-3) f s

Prerequisite: CH 101

Chemistry 203 includes a further study of the principles of general chemistry as presented in CH 101, and also an introduction to Organic Chemistry. The Organic Chemistry survey includes the hydrocarbons, alcohols, ethers, aldehydes, ketones, acids and derivatives, esters, phenols, fats, carbohydrates, amino acids, proteins, and a selected group of natural and synthetic products.

Staff

CH 205 GENERAL AND QUALITATIVE CHEMISTRY

5 (3-6) s

Prerequisite: CH 101 or 201

Includes content of CH 103 supplemented by additional laboratory work.

Staff

CH 211 QUANTITATIVE ANALYSIS

4 (2-6) f

Prerequisite: CH 103

Volumetric analysis, including the techniques, chemistry, stoichiometry, and basic chemical principles of neutralization, oxidation, and precipitation analysis with laboratory application to representative analyses.

Mr. Hentz

CH 212 QUANTITATIVE ANALYSIS

4 (2-6) s

Prerequisites: CH 211 and one semester of General Physics

Continuation of CH 211 to the study of potentiometric titrations, colorimetry, pH measurement, electrodeposition, and gravimetric methods of analysis with representative laboratory applications.

Mr. Hentz

CH 215 QUANTITATIVE ANALYSIS

4 (3-3) f s

Prerequisite: CH 103

One semester course in Volumetric and Gravimetric analysis. Includes techniques, stoichiometry, and principles of neutralization, oxidation, and precipitation methods, and the chemistry of representative laboratory determinations.

Mr. Hentz

CH 401 SPECIAL TOPICS IN INORGANIC CHEMISTRY

3 (3-0) f

Prerequisite: CH 215

Structure of matter, periodic system, electronic structure and chemical bonding, acids, bases salts, preparation of elements, halogen compounds, hydrides and carbonyls.

Messrs. White, Jennings, Hentz

CH 421, 422 ORGANIC CHEMISTRY

5 (3-6) f s

Prerequisite: CH 212

Aliphatic and aromatic compounds, methods of preparation, purification and identification of compounds, emphasis on structure and mechanism of organic reactions.

CH 425, 426 ORGANIC CHEMISTRY

3 (2-3) f s

Prerequisite: CH 215

Structure, preparation, properties, and reactions of aliphatic and aromatic substances.

Mr. Loeppert

CH 430 ORGANIC PREPARATIONS

3 (1-6) s

Prerequisites: Three years of Chemistry including Organic Chemistry

Experiments selected to acquaint the student with advanced methods and techniques in the preparation of organic substances.

Mr. Loeppert

CH 451 INTRODUCTORY BIOCHEMISTRY

3 (2-3) f s

Prerequisite: CH 203

The fundamental biochemistry of living matter.

Mr. Satterfield

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

CH 527 ADVANCED SURVEY OF ORGANIC CHEMISTRY

3 (3-0) s

Prerequisites: Three years of Chemistry including Organic Chemistry

Underlying principles, interpretation of mechanisms, limitations in the use of organic reactions.

Mr. Reid

CH 528 QUALITATIVE ORGANIC ANALYSIS

3 (1-6) f

Prerequisites: Three years of Chemistry including Organic Chemistry

A study of class reactions functional groups, separation, identification and preparation of derivatives.

Mr. Reid

CHEMISTRY

CH 529 QUANTITATIVE ORGANIC ANALYSIS

3 (1-6) s

Prerequisites: Three years of Chemistry including Organic Chemistry
Quantitative determination of carbon, hydrogen, nitrogen, the halogens, sulfur and various functional groups in organic materials, with emphasis on semimicro methods.
Mr. Leopert

CH 531, 532 PHYSICAL CHEMISTRY

3 (3-0) f s

Prerequisites: CH 215, PY 202, MA 202
An intensive study of the states of matter, solutions, colloids, homogeneous and heterogeneous equilibrium, reaction kinetics, electrolysis, conductance, oxidation reactions, ionic equilibrium.

Messrs. Sutton, Jennings

CH 531 L, 532 L PHYSICAL CHEMISTRY LABORATORY

1 (0-3) f s

Prerequisites: CH 215, PY 202, MA 202
Laboratory course to accompany lecture work in physical chemistry.

Messrs. Sutton, Jennings

CH 533 PHYSICAL CHEMISTRY

3 (3-0) f

Prerequisite: CH 532

An intensive study of the structure of atoms and molecules, an introduction to statistics and selected subjects in thermodynamics.

Messrs. Sutton, Jennings

CH 537 INSTRUMENTAL METHODS OF ANALYSIS

4 (2-2) s

Prerequisites: Three years of Chemistry including CH 532
Physical methods of chemical analysis, the instruments employed and the theoretical basis for their operation.

Mr. Lott

CH 542 COLLOID CHEMISTRY

3 (2-3) s

Prerequisite: CH 426

Adsorption, preparation, properties, constitution, stability, and application of sols, gels, emulsions, foams and aerosols; dialysis, Donnan membrane equilibrium.

Mr. White

CH 543 RADIOCHEMISTRY

3 (2-3) s

Prerequisites: CH 215 or 212, PY 520

Chemical techniques applied to separation of radioactive elements and preparation for counting. Applications of radioactivity to chemistry.

Mr. Hentz

CH 551 GENERAL BIOLOGICAL CHEMISTRY

5 (3-6) f

Prerequisites: CH 422, or equivalent of three years of Chemistry

The chemical constitution of living matter. Biochemical processes as well as compounds are studied, lectures, laboratory.

Messrs. Peterson, Simmons

CH 552 PHYSIOLOGICAL CHEMISTRY

3 (2-3) s

Prerequisite: CH 551

Digestion, absorption, metabolism, secretions, and excretions. Laboratory will include analysis of blood and urine.

Mr. Satterfield

CH 555 PLANT CHEMISTRY

3 (2-3) s

Prerequisite: CH 551

Composition of plants, properties, nature, and classification of plant constituents, changes occurring during growth, ripening, and storage of plants or plant products.

Messrs. Simmons and Ringler

CH 561 CHEMISTRY OF CARBOHYDRATES AND LIPIDES

3 (3-0) s

Prerequisites: CH 422 or equivalent of three years of Chemistry

Classification, composition, distribution, biosynthesis, and metabolism of lipides and carbohydrates, analysis syntheses deterioration, physical properties and chemical reactions are also considered.

Messrs. Robinson, Simmons, Smith

CH 562 CHEMISTRY OF PROTEINS AND NUCLEIC ACIDS

3 (3-0) f

Prerequisites: CH 422, CH 551, or equivalent of three years of Chemistry

Composition, distribution, structure, properties, and metabolism of amino acids, proteins and nucleic acids.

Messrs. Peterson, Ingram

CH 572 CHEMISTRY OF THE VITAMIN

3 (3-0) s

Prerequisites: CH 422, or equivalent of three years of Chemistry

History, nomenclature, properties, distribution, effects of deficiencies, vitamin values.

Mr. Satterfield

CIVIL ENGINEERING

CH 601 ADVANCED ORGANIC CHEMISTRY

3 (3-0) f

Prerequisite: CH 527

Alcyclic and heterocyclic compounds macromolecules, standard type reactions.

Messrs. Reid, Loeppert, Robinson

CH 602 ADVANCED ORGANIC CHEMISTRY

3 (3-0) s

Prerequisites: CH 422, 532

Theoretical and physical aspects of Organic Chemistry; relations between chemical constitution and properties.

Mr. Loeppert

CH 621 (AI 621) ENZYMES AND INTERMEDIARY METABOLISM

4 (3-3) f

Prerequisites: CH 551 and permission of instructor

A study of the properties of enzymes and enzyme action, intermediary metabolism of carbohydrates, amino acids, fatty acids, vitamins, purines and porphyrins, metabolic energy relationships.

Mr. Tove

CH 623 (AI 623) BIOLOGICAL ASSAY OF VITAMINS

3 (2-2) s

Prerequisites: CH 551 or AI 312, ST 511

Techniques and designs of biological assays for vitamins; the interrelationships of logical principles, design, and analysis is emphasized.

Staff

CH 631 CHEMICAL RESEARCH

Credits by arrangement

Prerequisites: 36 semester credits in Chemistry. Open to all graduates

Special problems that will furnish material for a thesis. A maximum of 6 semester credits is allowed toward a Master's degree, no limitation on credits in Doctorate programs.

Staff

CH 641 SEMINAR

Credits by arrangement

Prerequisite: Graduate standing in Chemistry

Required of graduate students specializing in Chemistry

Scientific articles, progress reports in research, and special problems of interest to chemists are reviewed and discussed.

A maximum of two semester credits is allowed toward the Master's Degree, but any number toward the Doctorate.

Staff

CH 651 SPECIAL TOPICS IN CHEMISTRY

Max. 3

Prerequisite: Graduate standing in Chemistry

Critical study of some special problems in one of the branches of Chemistry, involving original investigation together with a survey of pertinent literature.

Staff

CH 671, 672 ADVANCED PHYSICAL CHEMISTRY

3 (3-0) f s

Prerequisites: CH 532

The work of 671 will involve a thorough review of the fundamental principles of physical chemistry with extension and application of these to the study of the solid state. In 672 there will be laid down the elements of statistical mechanics and kinetic theory, in terms of which certain topics from 671 will be more exhaustively developed. Solution of problems will play an important role in 671.

Mr. Sutton

CIVIL ENGINEERING

COURSES FOR UNDERGRADUATES

CE 201 SURVEYING I

3 (1-5) f s

Prerequisite: MA 101

Required of sophomores in Civil and Geological Engineering and in Landscape Architecture

Elements of plane surveying: taping, transit, level, stadia, plane table, topographic surveying and mapping, care and adjustment of instruments, elementary astronomical surveying.

CE 202 SURVEYING II

3 (1-5) s

Prerequisite: CE 201

Required of sophomores in Civil Engineering and in Landscape Architecture

Construction surveys; earthwork computations; route surveys; simple, compound, parabolic and spiral curves; chainage equations.

CIVIL ENGINEERING

CE 211 CONSTRUCTION SURVEYING I

3 (1-5) f s

Prerequisite: MA 101

Required of sophomores in Civil Engineering Construction Option
Elements of plane surveying, including field and classroom work with particular emphasis on application of plane surveying for construction.

CE 212 CONSTRUCTION SURVEYING II

3 (1-5) s

Prerequisite: CE 211

Required of sophomores in Civil Engineering Construction Option
Construction layout, line and grade work, earthwork computations, route surveys and simple curves, with particular emphasis on construction applications.

CE 217 FORESTRY SURVEYING

4 (2-6) s

Prerequisite: MA 111

Required of sophomores in Forestry
Elements of plane and topographic surveying and mapping; U. S. Public Land Surveys; curves and earthwork; forestry surveying.

CE 305, 306 TRANSPORTATION ENGINEERING I, II

3 (3-2) f s

Prerequisite: CE 202

Required of juniors in Civil Engineering
Transportation systems; elements of railroad, highway, traffic and airport engineering; physical and mechanical properties of soils that govern their use as engineering materials.

CE 321 MATERIALS TESTING LABORATORY I

2 (1-3) f

Corequisite: CE 321 or EM 343

Required of juniors in Civil Engineering and Civil Engineering Construction Option
Properties of cementing materials, mortars, concretes, ceramic products, building stones; proportioning mortars and concretes; physical properties and performance characteristics of timber, plywood, glued construction and timber fastenings; ASTM standards.

CE 322 MATERIALS TESTING LABORATORY II

2 (1-3) s

Prerequisite: CE 321

Required of juniors in Civil Engineering and Civil Engineering Construction Option
Properties of structural metals, riveted and welded joints; failures of materials; significance of test results; selection of working stresses; field methods for measuring load, deflection and strain.

CE 324 ANALYSIS OF STRUCTURES I

3 (2-3) s

Prerequisite: EM 311

Required of juniors in Civil Engineering
Stress analysis of statically determinate beams and framed structures under fixed and moving loads; influence line treatment for moving loads; analysis and design of a simple truss.

CE 325 ELEMENTS OF STRUCTURAL DESIGN A

3 (2-3) f

Prerequisite: CE 334

Required of seniors in Construction
Elementary design of plain and reinforced concrete, including continuity problems.

CE 328 ELEMENTS OF STRUCTURAL DESIGN B

3 (2-3) s

Prerequisite: CE 325

Required of seniors in Construction
Elements of design of steel and timber; simple connections; problems in erection, forms, shoring and falsework.

CE 334 ELEMENTS OF STRUCTURAL ANALYSIS

3 (2-3) s

Prerequisite: EM 341

Required of juniors in Civil Engineering Construction Option
Analysis of beams and simple framed structures; graphical and analytical methods.

CE 338 STRUCTURES I

3 (3-0) f

Prerequisite: EM 311

Required of juniors in Architecture
Analysis of simple structures; reactions, shear and moment diagrams; stresses in members of framed structures; graphic statics.

CE 339 STRUCTURES II

3 (3-0) s

Prerequisites: CE 338 and EM 321

Required of juniors in Architecture
Analysis of indeterminate structures; slopes and deflections; analysis of indeterminate frames by moment distribution.

CIVIL ENGINEERING

CE 344 SOIL MECHANICS

3 (3-0) s

Prerequisite: CE 305

Required of juniors in Civil Engineering

Fundamental stress relations, Mohr's rupture hypothesis, shearing strength, earth pressure theories, bearing capacity, stability of slopes, hydrostatics, and hydrodynamics of ground water.

CE 351 DETAILS OF BUILDING CONSTRUCTION

2 (2-0) f

Prerequisite: Junior standing

Required of juniors in Heating and Air Conditioning

Structural systems with particular emphasis on location of equipment.

CE 357 ESTIMATES AND COSTS A

3 (2-3) f

Prerequisite: Junior standing

Required of juniors in Construction

Analysis of construction plans and specifications; preparation of quantity surveys; approximate and detailed estimates of projects.

CE 358 ESTIMATES AND COSTS B

3 (2-3) s

Prerequisite: CE 357

Required of juniors in Construction

Preparation of complete cost estimates of construction projects; bidding procedures; preparation of bids.

CE 361 ESTIMATES AND COSTS I

3 (2-3) f

Prerequisite: Junior standing

Required of juniors in Civil Engineering Construction Option

Interpretation of working drawings; analysis of construction plans and specifications; approximate and detailed estimates of costs.

CE 362 ESTIMATES AND COSTS II

3 (2-3) s

Prerequisite: CE 361

Required of juniors in Civil Engineering Construction Option

Preparation of complete cost estimates of construction projects; bidding procedures and preparation of bids.

CE 367 PROJECT PLANNING AND CONTROL A

3 (2-3) f

Prerequisite: CE 358

Required of seniors in Construction

Studies of performance characteristics of construction equipment; analysis of plant layout requirements.

CE 368 PROJECT PLANNING AND CONTROL B

3 (2-3) s

Prerequisite: CE 367

Required of seniors in Construction

Complete organization analysis and scheduling of construction projects.

CE 382 HYDRAULICS

3 (3-0) f s

Prerequisite: EM 312

Required of juniors in Civil Engineering

Properties of fluids and mechanics of fluid flow in pipes and open channels; theory of design and characteristics of pumps and hydraulic motors; measurement of fluid flow.

CE 390 INTRODUCTION TO SANITARY ENGINEERING

1 (1-0) f s

Prerequisite: CH 102

Elective

Survey of sanitary engineering.

COURSES FOR ADVANCED UNDERGRADUATES

CE 425 ANALYSIS OF STRUCTURES II

3 (2-3) f

Prerequisites: CE 324 and EM 321

Required of seniors in Civil Engineering

Deflection of beams and trusses; indeterminate stress analysis by moment area slope deflection and moment distribution.

CE 427 STRUCTURAL DESIGN I

4 (3-3) f

Corequisite: CE 425

Required of seniors in Civil Engineering

Analysis and design of reinforced concrete building elements design of tension, compression and simple flexural members of steel and of timber

CE 428 STRUCTURAL DESIGN II

3 (1-6) s

Prerequisite: CE 427

Required of seniors in Civil Engineering

Design specifications, connection details, independent and complete design of engineering structures.

CIVIL ENGINEERING

- CE 433 ELEMENTS OF STRUCTURAL DESIGN I** 3 (2-3) f
Prerequisite: CE 334
Required of seniors in Civil Engineering Construction Option
Elements of indeterminate analysis and design of plain and reinforced concrete.
- CE 434 ELEMENTS OF STRUCTURAL DESIGN II** 3 (2-3) s
Prerequisite: CE 433
Required of seniors in Civil Engineering Construction Option
Design of tension, compression and flexural elements of steel and timber; solution of problems in erection, forms, shoring and falsework.
- CE 435 STRUCTURES III** 3 (2-2) f
Prerequisite: CE 339
Required of seniors in Architecture
Principles of steel and timber design.
- CE 436 STRUCTURES IV** 4 (2-4) s
Prerequisite: CE 435
Required of seniors in Architecture
Principles of reinforced concrete design and elements of foundations.
- CE 443 FOUNDATIONS** 3 (3-0) s
Prerequisite: CE 433
Required of seniors in Civil Engineering Construction Option
Identification and classification of soils; geological aspects of foundation engineering; method of investigating subsoil conditions; control of water; types of foundations and conditions favoring their use; legal aspects of foundation engineering.
- CE 461 PROJECT PLANNING AND CONTROL I** 3 (2-3) f
Prerequisite: CE 362
Required of seniors in Civil Engineering Construction Option
Analysis of construction plant layout requirements and performance characteristics of equipment.
- CE 462 PROJECT PLANNING AND CONTROL II** 3 (2-3) s
Prerequisite: CE 461
Required of seniors in Civil Engineering Construction Option
Scheduling, analysis and control of construction projects.
- CE 464 LEGAL ASPECTS OF CONTRACTING** 3 (3-0) s
Prerequisite: Senior standing
Required of seniors in Civil Engineering Construction Option; elective
Legal aspects of construction contract documents and specifications; owner-engineer-contractor relationships and responsibilities; bids and contract performance; labor laws.
- CE 481 HYDROLOGY AND DRAINAGE** 2 (2-0) f
Prerequisite: EM 312
Required of seniors in Civil Engineering
Occurrence and distribution of rainfall; runoff, surface and ground waters; design of drainage and control structures.
- CE 482 WATER AND SEWAGE WORKS** 3 (3-0) s
Prerequisite: Senior standing
Required of seniors in Civil Engineering
Water supply analysis and design, including population estimates, consumption, source election, adequate, distribution systems and pumping stations; elements of water treatment; collection and disposal of sewage; elements of sewage treatment.
- CE 485 ELEMENTS OF HYDRAULICS AND HYDROLOGY** 3 (3-0) f
Prerequisite: EM 342
Required of seniors in Civil Engineering Construction Option
Elements of fluid mechanics, hydraulics and hydrology, with application to problems in construction engineering.
- CE 492, 493 PROFESSIONAL PRACTICE I, II** 1 (1-0) f s
Prerequisite: Senior standing
Required of seniors in Civil Engineering and Civil Engineering Construction Option
Professional engineering societies and their functions; professional standards; topics of current interest to the civil engineer.
- CE 497, 498 ENGINEERING CONSULTATION** 2 (1-2) f s
Prerequisite: Fifth-year standing
Required of fifth-year students in Architecture
Discussion of engineering problems in architecture.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES**CE 507 AIRPHOTO ANALYSIS I****3 (2-3) f s**

Prerequisite: Junior standing

Engineering evaluation of aerial photographs, including analysis of soils and surface drainage characteristics.

CE 508 AIRPHOTO ANALYSIS II**3 (2-3) s**

Prerequisite: CE 507

Engineering evaluation of aerial photographs for highway and airport projects.

CE 510 ADVANCED SURVEYING**3 (2-3) f s**

Prerequisite: CE 202

Elements of astronomical, geodetic and photogrammetric surveying, coordinate systems and map projections.

CE 513 MUNICIPAL ENGINEERING I**3 (3-0) f**

Prerequisite: Senior standing

Municipal engineering functions, planning and operating procedures.

CE 514 MUNICIPAL ENGINEERING II**3 (2-3) s**

Prerequisite: CE 513

Special problems relating to public work, public utilities, urban planning, and city engineering.

CE 515 TRANSPORTATION ANALYSIS**3 (3-0) f**

Prerequisite: CE 306

An analysis of the development and operation of transportation industries.

CE 516 TRANSPORTATION PLANNING**3 (2-3) s**

Prerequisite: CE 515

Transportation planning as related to the transportation industry, to urban planning and to land usage.

CE 521, 522 ADVANCED STRUCTURAL DESIGN I, II**3 (2-3) f s**

Prerequisite: CE 425

Complete structural designs of a variety of projects; principles of limit and prestress design.

CE 524 ANALYSIS AND DESIGN OF MASONRY STRUCTURES**3 (3-0) s**

Prerequisite: CE 425

Analysis and design of arches, culverts, dams, foundations and retaining walls.

CE 531 EXPERIMENTAL STRESS ANALYSIS**3 (2-3) f**

Prerequisite: CE 425

Principles and methods of experimental analysis; dimensional analysis; applications to full-scale structures.

CE 532 STRUCTURAL LABORATORY**3 (1-6) s**

Prerequisite: CE 531

Test procedures and limitations and interpretation of experimental results.

CE 544 FOUNDATION ENGINEERING**3 (3-0) f s**

Prerequisite: CE 344

Subsoil investigations excavations, design of sheeting and bracing systems control of water; footing, grillage and pile foundations; caisson and cofferdam methods of construction; legal aspects of foundation engineering.

CE 547 FUNDAMENTALS OF SOIL MECHANICS**3 (3-0) f s**

Prerequisite: EM 321

Physical and mechanical properties of soils governing their use for engineering purposes stress relations and applications to a variety of fundamental problems.

CE 548 SOIL TESTING FOR ENGINEERING PURPOSES**3 to 6 (arrange) f s**

Prerequisite: CE 344 or CE 547

Qualitative and quantitative soil testing procedures for engineering purposes.

CE 570 SANITARY MICROBIOLOGY**3 (2-3) f s**

Prerequisite: BO 412

Dynamics of disinfection and bacteriostasis; microbiology of water and sewage and of sewage treatment processes.

CE 571 THEORY OF WATER AND SEWAGE TREATMENT**3 (3-0) f**

Prerequisite: Senior standing

Study of the physical and chemical principles underlying water and sewage treatment processes, diffusion of gases, solubility, equilibrium and ionization, anaerobic and aerobic stabilization processes, sludge conditioning and disposal.

CIVIL ENGINEERING

CE 572 UNIT OPERATIONS AND PROCESS IN SANITARY ENGINEERING 3 (1-6) s

Prerequisite: CE 571

Processes and operations in sanitary engineering; sedimentation, aeration, filtration, adsorption, coagulation, softening, sludge digestion, aerobic treatment of sewage.

CE 573 ANALYSIS OF WATER AND SEWAGE 3 (1-6) f

Corequisite: CE 571

Chemical and physical analysis of water and sewage and interpretation of results.

CE 591, 592 CIVIL ENGINEERING SEMINAR 1 (1-0) f s

Discussions and reports of subjects in civil engineering and allied fields.

CE 598 CIVIL ENGINEERING PROJECTS 1 to 6 (arrange) f s

Special projects in some phases of civil engineering.

COURSES FOR GRADUATES ONLY

CE 601, 602 ADVANCED TRANSPORTATION ENGINEERING I, II 3 (3-0) f s

Corequisite: CE 515

Analysis of the engineering aspects of traffic and transportation problems.

CE 603 TRANSPORTATION ENGINEERING DESIGN I 3 (2-3) f

Corequisite: CE 601

The basic elements of traffic and transportation engineering design.

CE 604 TRANSPORTATION ENGINEERING DESIGN II 3 to 6 (arrange) s

Prerequisite: CE 603

Corequisite: CE 516

The analysis, planning and design of major transportation engineering projects.

CE 621, 622 ADVANCED STRUCTURAL ANALYSIS I, II 3 (3-0) f s

Prerequisite: CE 425

Analysis of rigid frames and continuous structures; treatment of redundant members and secondary stresses.

CE 624 THEORY AND DESIGN OF ARCHES, THIN SHELLS AND DOMES 3 (3-0) s

Prerequisite: CE 621

Corequisite: EM 602

Analysis and design of hinged and rigid arches of both frame and rib construction; and of thin shells and domes.

CE 626 STRUCTURAL CONNECTIONS 3 (3-0) s

Prerequisite: CE 621

Analysis of stresses in simple, rigid and semi-rigid connections; critical review of specifications.

CE 641, 642 ADVANCED SOIL MECHANICS 3 (3-0) f s

Prerequisite: CE 344 or

Corequisite: CE 547

Theories of soil mechanics; failure conditions; mechanical interaction between solids and water, and problems in elasticity pertaining to earthwork engineering.

CE 643 HYDRAULICS OF GROUND WATER 3 (3-0) f s

Prerequisite: CE 344 or 547

Principles of ground water hydraulics; theory of flow through idealized porous media; the flow net solution; seepage and well problems.

CE 671 ADVANCED WATER SUPPLY AND SEWERAGE 4 (3-3) f

Prerequisite: CE 482

Problems relating to the design of water supply and sewerage works.

CE 672 ADVANCED WATER AND SEWAGE TREATMENT 4 (3-3)s

Prerequisite: CE 482

Problems relating to the treatment of water and sewage.

CE 673 INDUSTRIAL WATER SUPPLY AND WASTE DISPOSAL 3 (3-0) f s

Corequisite: CE 571

Water requirements of industry and the disposal of industrial wastes.

CE 674 STREAM SANITATION 3 (3-0) f s

Corequisite: CE 571

Biological, chemical and hydrological factors that affect stream sanitation and stream use.

CE 698 CIVIL ENGINEERING RESEARCH 1-6 (arrange) f s

Independent investigation of an advanced civil engineering problem; a report of such an investigation is required as a graduate thesis.

— — — DAIRY MANUFACTURING (ANIMAL INDUSTRY)

COURSES FOR UNDERGRADUATES

DM 400 PLANT EXPERIENCE

Maximum 6

Prerequisite: Approval of adviser

Practice in processing dairy products, including milk, ice cream, cheese, butter, and concentrated milks; application of laboratory control; and practice in dairy equipment maintenance. Required of all Dairy Manufacturing majors, unless proof of equivalent experience can be shown.

Staff

DM 401 MARKET MILK AND RELATED PRODUCTS

3 (2-3) s

Prerequisite: Approval of instructor

Principles and information on the production, processing, distribution, and public health control of fluid milk and related products.

Messrs. Roberts, Blanton

DM 402 CHEESE

3 (2-3) s

Prerequisite: Approval of instructor

Principles and practice in the manufacture and curing of various types of cheese; importance and propagation of cheese starters.

Mr. Warren

DM 403 ICE CREAM AND RELATED FROZEN DAIRY FOODS

3 (2-3) f

Prerequisite: Approval of instructor

Choice, preparation, and processing of ingredients and freezing of ice cream and other frozen desserts.

Mr. Warren

DM 404 BUTTER AND DAIRY BY-PRODUCTS

3 (2-3) s

Prerequisite: Approval of instructor

A study of the fundamentals of buttermaking, and the principles of manufacturing concentrated and dried milks.

Mr. Warren

DM 405 DAIRY MECHANICS

1 (0-3) f

Prerequisite: Dairy Engineering, AGE 331

Laboratory practice in the operation and maintenance of dairy plant equipment and refrigeration systems; malfunctions of electrical systems; installation of sanitary milk lines, and water lines.

Mr. Blanton

DM 406 JUDGING DAIRY PRODUCTS

1 (0-3) s

Prerequisite: Approval of instructor

Milk and dairy products judging according to official standards and commercial grades.

Mr. Warren

DM 407 DAIRY BACTERIOLOGY I

4 (2-4) f

Prerequisite: General Bacteriology, BO 412

Applications of the principles of bacteriology to the production of quality milk and maintenance of quality in processing milk and milk products, various desirable and undesirable activities of bacteria in milk, methods of enumerating bacteria, detecting certain groups of bacteria of particular importance, and the relationships of bacteria in milk to public health.

Mr. Speck

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

DM 501 ADVANCED DAIRY TECHNOLOGY

3 (1-6) f

Prerequisite: Approval of instructor

The functions and operations of a dairy control laboratory, a comprehensive study of methods of analyses of dairy products and related non-dairy products, the application and interpretations of methods for quality and composition control of dairy products

Mr. Warren

DM 504 DAIRY PLANT MANAGEMENT

4 (3-2) s

Prerequisite: Approval of instructor

Business and factory management practices as used in the dairy plant.

Mr. Roberts

DESIGN

DM 506 DAIRY BACTERIOLOGY II

3 (0-6) s

Prerequisite: Dairy Bacteriology I, DM 407, or consent of instructor

A detailed study of bacteria particularly involved in the dairy industry regarding their physiology, morphology, and cultural characteristics with application to practical dairy farm and plant problems.

Mr. Speck

DM 508 DAIRY CHEMISTRY

3 (1-4) f

Prerequisite: Approval of instructor

A quantitative study of the physical, colloidal, and chemical properties of milk and its constituents.

Mr. Aurand

COURSES FOR GRADUATES ONLY

DM 601 SEMINAR IN DAIRY MANUFACTURING

1 (1-0) f s
1 credit per term

Prerequisite: Graduate standing in Dairy Manufacturing

Scientific articles, progress reports in research and special problems of interest are reviewed and discussed. A maximum of two credits is allowed toward the Master's degree, but any number toward the Doctorate.

Staff

DM 602 ADVANCED DAIRY CHEMISTRY

4 f s

Prerequisite: Approval of instructor

A qualitative study of the physical, colloidal, and chemical properties of milk and its constituents.

Mr. Aurand

DM 603 ADVANCED DAIRY BACTERIOLOGY

4 f s

Prerequisite: Approval of instructor

Industrial fermentations used or applicable in the utilization of surplus milk and milk products. The student conducts various fermentations and makes the requisite chemical and biological measurements in order to determine yields and efficiency of the process.

Mr. Speck

DM 604 TOPICAL PROBLEMS IN DAIRY MANUFACTURING

1 to 3 credits per term

Prerequisite: Graduate standing in Dairy Manufacturing

Special problems in various phases of dairy manufacturing. A maximum of six credits is allowed.

Staff

DM 605 RESEARCH IN DAIRY MANUFACTURING

Credits by arrangement

Prerequisite: Graduate standing in Dairy Manufacturing

A maximum of six credits is allowed toward the Master's Degree; no limitation on credits in Doctorate programs.

Staff

DESIGN

COURSES FOR UNDERGRADUATES

DN 101, 102 DESIGN I, II

3 (3-6) f s

Required of all first year students in the School of Design

Introduction to the elements and expression of two and three dimensional design involving a variety of tools, materials, and techniques. Orientation of historical and contemporary concepts of art and architecture.

Messrs. Gussow and Laskey

DN 111, 112 DESCRIPTIVE DRAWING I, II

3 (0-4) f s

Required of all first year students in the School of Design

Problems in analysis of visual perception with emphasis placed on the various systems man has developed to reduce visual experience into a two dimensional frame of reference. Freehand studies from nature as a means of studying drawing methods.

Messrs. Cox and Stuart

DN 201, 202 DESIGN III, IV

4 (3-6) f, 5 (3-6) s

Prerequisite: DN 102

Required of all second year students in the School of Design

The design sequence for this year seeks the solutions of problems which will tax the student's imaginative powers without making unreasonable demands on his newly gained technical abilities. Emphasis is placed on the architectural application of more general design principles to which the student has been previously exposed.

Messrs. Stuart and Elliott

ECONOMICS

DN 211, 212 DESCRIPTIVE DRAWING III, IV

2 (0-4) f s

Prerequisite: DN 112

Required of all second year students in the School of Design
Problems involving both analysis and synthesis whereby the student continues with the studies begun in the freshman year with the added element of learning to create images of possible visual experience wholly from imaginative process.

Messrs. Stuart and Adams

DN 311, 312 DESCRIPTIVE DRAWING V, VI

2 (0-6) f s

Prerequisite: DN 212

Required of all third year students in the School of Design
Problems involving the creative aspects of drawing, graphic arts, painting and sculpture. Type of classwork varies with instructor.

Messrs. Stuart and Adams

DN 331, 332 HISTORY OF DESIGN I, II

3 (3-0) f s

Prerequisite: DN 102

Required of all third year students in the School of Design
A critical study of the civilization of historic people and their contributions in the field of Design, (from ancient through medieval times), related to architecture, landscape architecture and visual aids.

Messrs. Baumgarten and Elliott

DN 411, 412 DESCRIPTIVE DRAWING VII, VIII

2 (0-6) f s

Prerequisite: DN 312

Required of all fourth year students in the School of Design
Continuation, at a more complex level, of work begun in third year.

Mr. Cox

DN 422, 521 OFFICE PROCEDURE I, II

2 (2-0) s f

Prerequisite: ARC 302

Required of all fourth and fifth year students in the School of Design
A study of the ethics, organization, and procedures of professional architectural practice; specifications, estimates and building codes.

Mr. Shumaker

DN 431, 432 HISTORY OF DESIGN III, IV

3 (3-0) f s

Prerequisite: DN 332

Required of all fourth year students in the School of Design
A continuation of the course DN 332 from the Renaissance Period through the Age of Reason till the Middle of the XIX Century.

Messrs. Baumgarten and Elliott

DN 511, 512 DESCRIPTIVE DRAWING IX, X

2 (0-6) f s

Prerequisite: DN 412

Required of all fifth year students in the School of Design
Continuation of third and fourth year work into "thesis" type activities wherein more mature projects may be undertaken.

Mr. Stuart

DN 531 HISTORY OF DESIGN V

3 (3-0) f

Prerequisite: DN 432

Required of all fifth year students in the School of Design
A critical study of the modern life and design in relation to social and cultural conditions, based on the spirit of the XIX and XX Centuries.

Mr. Baumgarten

DN 541, 542 PHILOSOPHY OF DESIGN I, II

2 (2-0) f s

Prerequisite: ARC 402

Required of all fifth year students in the School of Design
An introduction to aesthetics and the relationships of philosophic thought to design

Mr. Kamphoefner and Visiting Professors

ECONOMICS DEPARTMENT

EC 201, 202 ECONOMICS

3 (3-0) f s

Fundamental principles applying to the organization and functioning of our economy

EC 205 THE ECONOMIC PROCESS

3 (3-0) f s

An analysis of the process and principles by which an economy allocates resources, distributes goods and income and determines rate of growth.

ECONOMICS

EC 305 BUSINESS ORGANIZATION

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
A survey of business organization, operation, and practices. Special emphasis is given to the forms of business enterprises, principles of management, and the relation of the business unit to the economic system.

EC 312 ACCOUNTING FOR ENGINEERS

3 (3-0) f s

A survey of accounting principles; the analysis and recording of business transactions; financial statements, their construction, use and interpretation.

EC 315 SALESMANSHIP

2 (2-0) f s

An introduction to the principles and techniques of selling from the standpoint of the individual salesman. A course designed for the technical student anticipating entering the field of distribution.

EC 350 ECONOMIC GEOGRAPHY

3 (3-0) s

A study of world resources and industries and their relationship to trade and manufacturing. Distribution of the principal commodities of world commerce. An analysis of the world's important agricultural, industrial and commercial regions.

EC 354 MANAGING PERSONAL FINANCES

2 (2-0) f s

How to control cash income and outgo so that money goes where it does the best job. Use of family time and talent to increase income and cut expenses; meeting emergencies; use and abuse of personal credit; buying or building a house; savings and their uses; elementary investments; filling tax returns; trust funds and pensions.

EC 401, 402 PRINCIPLES OF ACCOUNTING

3 (2-2) f s

Fundamental principles of accounting theory and practice; the analysis and recording of business transactions; explanation and interpretation of the structure, forms, and use of financial statements.

EC 407 BUSINESS LAW I

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
A course dealing with elementary legal concepts, contracts, agency, negotiable instruments, sales of personal property, chattel mortgages, partnerships, corporations suretyship and bailments, insurance.

EC 408 BUSINESS LAW II

3 (3-0) f s

Prerequisite: EC 407
Deals with real property, mortgages on urban and farm lands, landlord and tenant, requirements for valid deed, insurance law, wills, suretyship and conditional sales.

EC 409 CONSTRUCTION ACCOUNTING

3 (2-2) f s

Prerequisite: EC 312
An introduction to the accounting problems peculiar to a construction organization. An analysis of the problems of estimating and allocating the costs of materials, labor and overhead to individual jobs.

EC 410 MANUFACTURING ACCOUNTING

3 (2-2) s

Prerequisite: EC 312 or EC 401
An introduction to the accounting problems peculiar to a manufacturing organization. An analysis of the problems of estimating and allocating the costs of materials, labor and overhead to the various units of product.

EC 411, 412 MARKETING METHODS AND SALES MANAGEMENT

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
Marketing institutions and their functions and agencies; retailing; market analysis; problems in marketing; elements of sales management with emphasis on planning, operations, policies and programs.

EC 414 TAX ACCOUNTING

3 (2-2) f s

Prerequisite: EC 312 or EC 401
An analysis of the Federal tax laws relating to the individual and business. Determining and reporting income. Payroll taxes and methods of reporting them. Actual practice in the preparation of income tax returns.

EC 415 ADVERTISING

2 (2-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
Principles of advertising; purposes; preparation of copy; media; advertising campaigns; legislation.

EC 419 MONEY AND BANKING

2 (2-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
A study of the role of money in the economic organization; methods of stabilizing the price level; study of the proper organization and functioning of commercial banking, and the Federal Reserve system; the problems of monetary standards and credit controls; recent monetary and banking trends are emphasized.

- EC 420 CORPORATION FINANCE** 3 (3-0) f s
Prerequisite: The basic course in Economics required by the degree-granting school
Financial instruments and capital structure; procuring funds; managing working capital; managing corporate capitalization; financial institutions and their work.
- EC 425 INDUSTRIAL MANAGEMENT** 3 (3-0) f
Prerequisite: Junior standing
Principles and techniques of modern scientific management; relation of finance, marketing, industrial relations, accounting, and statistics to production; production planning and control; analysis of economic, political, and social influences on production.
- EC 426 PERSONNEL MANAGEMENT** 3 (3-0) s
Prerequisite: Junior standing
The scientific management of manpower, from the viewpoint of the supervisor and the personnel specialist. A study of personnel policy and a review of the scientific techniques regarding the specific problems of employment, training, promotion, transfer, health and safety, employee service, and joint relations.
- EC 431 LABOR PROBLEMS** 2 (2-0) f s
Prerequisite: Junior standing
An economic approach to labor problems including wages, hours, working conditions, insecurity, substandard workers, minority groups, social security, and public policy relative to these problems.
- EC 432 INDUSTRIAL RELATIONS** 2 (2-0) f s
Prerequisite: Junior standing
Collective bargaining. Analysis of basic labor law and its interpretation by the courts and governmental agencies. An examination of specific terms of labor contracts and their implications for labor and management. An examination of labor objectives and tactics and management objectives and tactics. Problems of operating under the labor contract.
- EC 436 ECONOMIC FLUCTUATIONS** 2 (2-0) f s
Prerequisite: The basic course in Economics required by the degree-granting school
An empirical and theoretical analysis of changes in the level of economic activity. These changes will be examined as to causes, extent and timing, and effects.
- EC 442 EVOLUTION OF ECONOMIC IDEAS** 3 (3-0) f s
Prerequisite: The basic course in Economics required by the degree-granting school
An analysis of the development of economic thought and method during the past two centuries. Economics considered as a cumulative body of knowledge, in a context of emerging technology, changing institutions, pressing new problems, and the growth of science.
- EC 444 ECONOMIC SYSTEMS** 3 (3-0) f s
Prerequisite: The basic course in Economics required by the degree-granting school
A comparative analysis of the functioning of the major economic systems, with emphasis upon the ways in which the problem of economic calculation is approached in a variety of institutional settings.
- EC 501 INTERMEDIATE ECONOMIC THEORY** 3 (3-0) f s
Prerequisite: The basic course in Economics required by the degree-granting school
A systematic theoretical treatment of the functioning of a modern economy with special emphasis upon the pricing system.
- EC 503 ADVANCED ACCOUNTING** 3 (2-2) f s
Prerequisites: The basic course in Economics required by the degree-granting school, and EC 401, 402
Problems of asset valuation, such as depreciation, replacements, amortization, etc., as found in all types of business organizations: branch accounting, consolidations, installment selling.
- EC 504, 505 PRINCIPLES OF COST ACCOUNTING** 3 (2-2) f s
Prerequisites: The basic course in Economics required by the degree-granting school, and EC 401, 402
Cost finding, materials costs, labor costs, overhead costs, etc., with an introduction to standard cost procedures.
- EC 510 PUBLIC FINANCE** 3 (3-0) f s
Prerequisite: The basic course in Economics required by the degree-granting school
A study of fiscal policy and analysis of the fiscal devices of government, including expenditure, taxation, and borrowing.
- EC 514 INTERNATIONAL ECONOMICS** 3 (3-0) f s
Prerequisite: The basic course in Economics required by the degree-granting school
An analysis of international economic relations including trade investment, and the payments problem, with continuing consideration of policy.

ECONOMICS

EC 515 INVESTMENTS

3 (3-0) s

Prerequisite: The basic course in Economics required by the degree-granting school
Types of investment; investment market; investment analysis; investment channels; investment fluctuations; investment policies and practices.

EC 518 PRINCIPLES OF INSURANCE

2 (2-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
Risk as an element of all agricultural and industrial activity; discussion of such risks as can be covered by insurance with the appropriate forms of insurance, e.g., employer's liability, workmen's compensation, fire, life, and other forms.

EC 519 MONETARY THEORY

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
A study of the forces determining the value of money; the role of money in economic growth and in the maintenance of economic stability; and a consideration of monetary policy.

EC 521 OFFICE MANAGEMENT

3 (3-0) f s

Prerequisite: Open to seniors and graduate students only
The application of scientific management principles to office problems including: office planning and layout, equipment, filing, correspondence, selection, training and supervision of office employees, promotions and wage increases, office costs and budgets.

EC 531 MANAGEMENT OF INDUSTRIAL RELATIONS

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
A seminar course designed to round out the technical student's program. Includes a survey of the labor movement organization and structure of unions, labor law and public policy, the union contract, the bargaining process, and current trends and tendencies in the field of collective bargaining.

EC 540 ECONOMIC GROWTH AND DEVELOPMENT

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
An introduction to the theory of economic growth and development, with special application to the presently under-developed areas of the world.

EC 546 NATIONAL INCOME ANALYSIS

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
This course is designed to acquaint the student with the concepts and methods of national income analysis; to develop a theoretical framework; and to provide an application to the American Economy.

EC 548 ECONOMICS OF WELFARE

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
An analysis of the efficiency of our economy, including resource allocation, rate of growth, degree of stability, and income distribution.

EC 550 MATHEMATICAL MODELS IN ECONOMICS

3 (3-0) f s

Prerequisites: The basic course in Economics required by the degree-granting school, MA 202 or 212, and consent of the instructor
An introductory study of economic models emphasizing their formal properties. The theory of individual economic units is presented as a special case of the theory of inductive behavior. Mathematical discussions of the theory of the consumer, the theory of the firm, and welfare economics will show the relevance of such topics as constrained maxima and minima, set theory, partially and simply ordered systems, probability theory, and game theory to economics.

EC 555 INTRODUCTION TO LINEAR PROGRAMMING

3 (3-0) f s

Prerequisites: The basic course in Economics required by the degree-granting school, and MA 202 or 212, and consent of the instructor
Recent developments in the theory of production, allocation, and organization. Optimal combination of integrated productive processes within the firm. Applications in the economics of industry and of agriculture.

EC 601 ADVANCED ECONOMIC THEORY

3 (3-0) f s

Prerequisite: EC 501
A rigorous examination of contemporary economic theory, with special regard to such fields as general equilibrium theory, growth theory, and organization theory.

EC 603 HISTORY OF ECONOMIC THOUGHT

3 (3-0) f s

Prerequisite: EC 501 or consent of instructor
A systematic analysis of the development and cumulation of economic thought, designed in part to provide a sharper focus and more adequate perspective for the understanding of contemporary economics.

EC 605 RESEARCH IN ECONOMICS

Arranged

Prerequisite: Consent of instructor
Individual research in economics, under staff supervision and direction.

EC 655- Spec. Topics in Program.

EDUCATION

Agricultural Education

See pages 175-176 for: ED 101; 102; 201; 313; 411; 412; 413; 430; 554; 558; 563. 568; 616; 617; 618; 621 and 664

Industrial Arts and Industrial Education

See pages 236-239 for: ED 100; 345; 422; 440; 460; 482; 483; 516; 521; 525; 527; 528; 592; 595; 610; 614; 619; 624; 627; 630; 635.

Industrial and Rural Recreation

See pages 231-235.

Mathematics and Science Education

See pages 246-247 for: ED 470; 471; 475; 476.

Occupational Information and Guidance

See pages 257 for: ED 420; 524; 530; 531; 590; 631; 633; 641; 651.

Psychology

See pages 268-271.

GENERAL COURSES

ED 203 AN INTRODUCTION TO TEACHING

2 (2-0) s

A course designed to aid prospective teachers in becoming familiar with the scope and purposes of secondary education, the qualification and responsibilities of teachers, the relation of the school to the community, and current problems of secondary school teachers.

Mr. Speece

ED 308 VISUAL AIDS

2 (1-2) s

Methods and techniques of visual instruction; lettering; statistical illustration; chart, graph, and poster-making; photography; projector operation, care, and use.

Mr. Armstrong

ED 344 SECONDARY EDUCATION

2 (1-2) f s

An overview of secondary education, including development, problems, services, trends, teaching profession, role of school in the community, purposes, and objectives. The development and status of secondary education in North Carolina is taken up.

Mr. Tolbert

ED 410 DRIVER EDUCATION

3 (2-2) s

Course offered during Summer session only.

The principles of teaching the basic driving skills, including the new concept of defensive driving, observance and interpretation of motor vehicle laws, adverse driving conditions, handling of accident situations and care of the car.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ED 501 EDUCATION OF EXCEPTIONAL CHILDREN

3 (2-2) f

Prerequisite: Six hours in education or psychology

Advanced undergraduates or graduates

Discussion of principles and techniques of teaching the exceptional child with major interest on the mentally handicapped and slow learner. Practice will be given in curriculum instruction for groups of children, individual techniques for dealing with retarded children in the average classroom. Opportunity for individual work with an exceptional child will be provided.

Mr. Corter

ED 502 ANALYSIS OF READING ABILITIES

3 (3-0) f

Prerequisites: Six hours in education or psychology

A study of tests and techniques in determining specific abilities; a study of reading retardation and factors underlying reading difficulties.

Mr. Rust

ELECTRICAL ENGINEERING

ED 503 IMPROVEMENT OF READING ABILITIES

3 (3-0) s

Prerequisite: Six hours in education or psychology

A study of methods used in developing specific reading skills or in overcoming certain reading difficulties; a study of methods used in developing pupil vocabularies and work analysis skills; a study of how to control vocabulary burden of reading material.

ED 505 GROUP DYNAMICS IN TEACHING

3 (Summer only)

Prerequisites: Six hours in education or psychology

A study of group methods in teaching with special reference to role playing, conference techniques, and group dynamics in their application to teaching and an understanding of the student's behavior.

Mr. Solem

ED 509 WORKSHOP IN SPECIAL EDUCATION

3-6 (1-4) s

Prerequisite: Three hours in special education and a teaching certificate

The workshop in special education combines a practicum in special education with work on individual projects in a workshop situation. Wide latitude is given to teachers to work in areas of special interests or need. In addition to usual group meetings, materials are collected in handbook form each year for teachers use.

Mr. Corter

ED 510 ADVANCED DRIVER EDUCATION

3 (2-2) s

The study of course content in present day driver education courses: Evaluation of research literature in driver education; a study of existing driver education programs at both secondary and college levels; and evaluation of psychological and educational research in accidents.

ED 552 INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL

3 (Summer)

Prerequisites: Twelve credits in education and consent of instructor

This course is organized to help elementary teachers and principals understand how tools and materials and industrial processes may be used to vitalize and supplement the elementary school children's experiences. Practical children's projects along with the building of classroom equipment.

Mr. Schmitt

ED 615 INTRODUCTION TO EDUCATIONAL RESEARCH

3 (3-0) f

An introductory course for students preparing for an advanced degree. The purposes are: to assist the student in understanding the meaning and purpose of educational research and the research approach to problems; to develop students' ability to identify educational problems, and to plan and carry out research to solve these problems; to aid in the preparation of the research report. Special attention is given to tools and methods of research. Consideration is also given to the educators as a consumer of research.

Mr. Tolbert

ELECTRICAL ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

EE 201 ELEMENTARY CIRCUITS AND FIELDS

4 (2-5) f s

Co-requisite: MA 201

Required of sophomores in EE

Fundamental laws of electric circuits and magnetic circuits. Problem drill and laboratory exercises.

Staff

EE 202 ELEMENTARY CIRCUITS AND FIELDS

4 (2-5) s

Prerequisite: EE 201

Required of sophomores in EE

A continuation of EE 201. Introduction to simple circuit transients and steady-state alternating-current circuit theory. Fundamental laws of magnetic fields and electric fields. Problem drill and laboratory exercises.

Staff

EE 301, 302 INTERMEDIATE CIRCUITS AND FIELDS

4 (2-5) f

3 (2-2) s

Prerequisite: EE 202, PY 202, MA 202

Required of Juniors in EE

An intermediate treatment of lumped-constant alternating-current circuits in the steady state. Single- and three-phase circuits. Discussion of electric and magnetic fields, distributed constants, and traveling waves. The theory of transmission lines at power and audio frequencies. Filters and impedance matching. One three-hour laboratory per week is included in the first semester.

Staff

ELECTRICAL ENGINEERING

EE 305, 306 ELECTRICAL MACHINERY

4 (2-5) f s

Prerequisites: EE 202 for EE 305; EE 301 for EE 306

Required of Juniors in EE

A classroom and laboratory study of the principles, performance, and characteristics of direct current and alternating current machinery.

Staff

EE 310 ILLUMINATION

3 (2-3) f

Prerequisites: EE 301 or EE 320 or EE 331

A classroom and laboratory study of the principles involved in the production and utilization of light from artificial sources; a study of the requirements for good lighting; and design of lighting installations for schools and industry. Two hours recitation and one three-hour laboratory or problem period per week.

Mr. Winkler

EE 320 ELEMENTS OF ELECTRICAL ENGINEERING

4 (3-3) f s

Prerequisites: MA 202, PY 202

Required of seniors in AER, AGE, CRE, CHE, GEE, IE, CE, and NE

Principles, characteristics and operation of electric equipment and systems. Theory and problems in applied electricity; motor characteristics and industrial applications. Three hours of lecture and one three-hour laboratory or recitation per week.

Staff

EE 331, 332 PRINCIPLES OF ELECTRICAL ENGINEERING

4 (3-3) f s

Prerequisites: MA 202, PY 202

Required of seniors in EPY and ME

Basic concepts, electrical power generation and utilization circuit elements, single and polyphase a.c. circuits, transformers, rotating electrical machines. Fundamentals of Electronics and control circuits. Three hours of lecture and one three-hour recitation or laboratory per week.

Staff

EE 341, 342 INDUSTRIAL ELECTRICITY

4 (3-2) f s

Prerequisites: PY 211, 212

Required of juniors in Heating and Air Conditioning curriculum.

A study of the basic electric circuits and machinery with emphasis on single phase and three phase power and energy relations, the performance, maintenance, and applications of motors and transformers, motor control; rules for wiring as specified by the National Electric Code. (Three hours work lecture and three hours work recitation or laboratory per week.)

Staff

EE 350 ELECTRICAL APPLICATIONS IN WOOD PRODUCTS MANUFACTURING 3 (2-2)

Prerequisites: PY 211, 212

Required of juniors in Pulp and Paper Technology curriculum

Optional for juniors or seniors in Furniture Manufacturing and Management

A study of electrical power applications in the pulp and paper industries, and in furniture manufacturing. Includes a.c. and d.c. circuits, single phase and polyphase power and energy measurements; d.c. and a.c. motors; and control systems. Two hours recitation and one three-hour laboratory or problem per week.

Staff

COURSES FOR ADVANCED UNDERGRADUATES

EE 411, 412 ELECTRICAL ENGINEERING SENIOR SEMINAR

1 (0-2) f s

Prerequisite: Senior standing

Required of seniors in Electrical Engineering

Weekly meetings for the delivery and discussion of student papers on topics of current interest in Electrical Engineering.

Staff

EE 414 ELECTRON TUBES

4 (3-3) s

Prerequisites: EE 301, MA 202

Required of juniors in EE

A study of the fundamentals of electrical conduction in vacuum and gases. Operating characteristics of vacuum and gaseous tubes, mercury arc rectifiers, photoelectric cells, cathode-ray oscilloscopes, etc. Introduction to vacuum tube circuit theory. One laboratory period a week illustrates the theory covered during lecture and recitation periods.

Staff

EE 416 CENTRAL STATIONS

3 (3-0) s

Prerequisite: EE 306

Location and layout of power stations. Costs of generating, transmitting, and distributing electric energy. Economic selection and operations of electrical equipment. Rate-making, federal regulation.

Mr. Fouraker

ELECTRICAL ENGINEERING

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

EE 501, 502 ADVANCED ELECTRIC CIRCUITS AND FIELDS

3 (2-2) f s

Prerequisite: EE 302, MA 401

Required of seniors in EE

A continuation of the study of electric circuits and fields. Consideration of the transient state in electrical circuits, transformation techniques for the solution of problems. Application of classical electric and magnetic field theory to the problems of electrical engineering, using vector analysis.

Mr. Gauster

EE 510 HIGH VOLTAGE LABORATORY

1 (0-3) f s

Prerequisites: EE 302, PY 401

A laboratory course in the techniques of producing and handling high voltages. Corona, surface discharge, breakdown, and other phenomena are studied. Typical high voltage tests are performed on dielectrics.

Mr. Gauster

EE 511, 512 ELECTRIC COMMUNICATIONS

4 (3-3) f s

Prerequisites: EE 302, 414

Required of EE seniors not taking EE 513, 514

A classroom and laboratory study of the circuits and equipment involved in radio and wire communication: circuit elements, vacuum tube and transistor and oscillators, modulation, detection, antennas and radio propagation. Emphasis is on design and quantitative analysis.

Mr. Carson

EE 513, 514 ELECTRIC POWER ENGINEERING

4 (3-3) f s

Prerequisite: EE 302

Required of EE seniors not taking EE 511, 512

Long distance transmission of power. Line parameters by the method of geometric mean distances. Circle diagrams, symmetrical components, and fault calculations. elementary concepts of power system stability. Prime movers, bus systems, and switchgear. Loads and the selection of motors for various industrial applications. One three-hour laboratory per week accompanies the classroom study.

Mr. Stevenson

EE 515 INDUSTRIAL ELECTRONICS AND CONTROL

4 (3-3) f

Prerequisites: EE 306, 414

A study, with laboratory tests, of the application of electronic devices to industrial processes and equipment outside of the field of communications. Speed and voltage control; timing devices; electronics heating; air purification; production and quality control; photo electric devices.

Staff

EE 516 FUNDAMENTALS OF SERVOMECHANISMS

4 (3-3) s

Prerequisites: MA 401, and either EE 302 or 322

Dynamics and synthesis of closed-loop control systems using transient and sinusoidal analyses. Applications to electrical, mechanical and chemical systems. One two-hour laboratory or problem period per week to supplement the classroom work.

EE 518 Instr. & control in nucl. tech.

Staff

EE 605, 606 ELECTRICAL ENGINEERING SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing in EE

A series of papers and conferences participated in by the instructional staff, invited guests, and students who are candidates for advanced degrees.

Graduate Staff

EE 611, 612 COMMUNICATION NETWORKS

4 (4-0) f s

Prerequisites: EE 302, 501

Steady state and transient performance of the generalized network. Analysis and synthesis of two-and four-terminal reactive networks. Wave filters and phase equalizers. Networks containing resistances and reactances. Feedback systems, such as feedback amplifiers, regulators, and servomechanisms. The study includes both the analysis and the synthesis of such systems, in terms of transient and steady-state response, using mathematical methods based on the theory of the complex variable.

Mr. Hoadley

EE 615 ELECTROMAGNETIC WAVES

4 (3-3) f

Prerequisite: EE 502

Maxwell's Equations applied to a study of the propagation of energy by electromagnetic waves. Vector and scalar potentials, retarded potentials, reflection and refraction power flow and energy density; plane rectangular and cylindrical wave guides; lines and cavity resonators. Laboratory on microwave techniques and measurements.

Mr. Carson

ELECTRICAL ENGINEERING

EE 616 ADVANCED RADIO ENGINEERING

4 (3-3) s

Prerequisites: EE 512, 615

Analysis and design of microwave transmitting, receiving and measuring systems. Electronic methods of pulsing, timing, counting, gating and computing with applications to communication, navigation, radar and computer systems. Theory and application of klystrons, magnetrons, and traveling-wave tubes. Laboratory emphasizes non-sinusoidal electronic circuitry.

Mr. Carson

EE 618 RADIATION AND ANTENNAS

4 (3-3) f

Prerequisite: EE 615

Electromagnetic wave theory applied to antennas and antenna rays. Calculation and measurement of directional characteristics and field intensity.

Mr. Barclay

EE 621 VACUUM TUBE DESIGN

3 (3-0) f

Prerequisite: EE 512, 615 and MA 611

An intensive analytic study of the laws of electron emission and motion and the design of vacuum tubes. Poisson's equation and conformal transformations are used to develop design criteria and equations. Analytic and experimental methods for determining potential fields are studied. Construction and high vacuum practice are covered.

Mr. Barclay

EE 622 ELECTRON OPTICS AND TRANSIT TIME EFFECTS

4 (3-3) s

Prerequisite: EE 621

The equivalent noise generator circuit is applied to the various sources of noise in vacuum tubes. Electrostatic and magnetic lens action. Transit time in high frequency tubes and velocity modulated tubes, magnetrons, cathode ray and photoelectric tubes.

Mr. Barclay

EE 631, 632 ADVANCED ELECTRIC MACHINERY

3 (3-0) f s

Prerequisite: EE 306

An advanced study of electrical machine theory. Equivalent circuits of transformers and rotating machines. Operation under abnormal conditions: unbalanced voltages, harmonics, fault currents, stability, etc. Applications to design problems.

Mr. Eckels

EE 635, 636 DIELECTRIC THEORY AND HIGH VOLTAGE ENGINEERING

3 (3-0) f s

Prerequisite: EE 414

High Voltage measurement methods, theory and experimental investigations of dielectric properties of insulating materials (gases, liquids, solids). Problems involved with technical applications (design of insulators, corona losses of high voltage lines, circuit breaker theory).

Mr. Gauster

EE 637, 638 POWER SYSTEM ANALYSIS

3 (3-0) f s

Prerequisite: EE 514

An advanced study of symmetrical components applied to the general unbalanced three-phase circuit. Sequence self and mutual impedances. Power system stability studies with emphasis on the transient case.

Mr. Stevenson

EE 643 ADVANCED ELECTRICAL MEASUREMENTS

2 (2-0) f

Prerequisites: EE 302, 414

A critical analysis of circuits used in electrical measurements, with special attention to such topics as balance convergence, effects of strays, sensitivity, and use of feedback in electronic devices.

Mr. Hoadley

EE 645, 646 ADVANCED ELECTROMAGNETIC THEORY

3 (3-0) f s

Prerequisite: EE 615 or PY 602

A comprehensive study of electricity and magnetism, emphasizing dynamic field theory. Potential theory, boundary-value problems, electrostatics and magnetostatics, transients in continuous systems, electromagnetic theory of light.

Mr. Gauster

EE 650 ELECTRICAL ENGINEERING RESEARCH

Credits by arrangement

Prerequisites: Graduate standing in EE and approval of adviser
Individual research in the field of Electrical Engineering.

Graduate Advisers

EE 661, 662 SPECIAL STUDIES IN ELECTRICAL ENGINEERING

3 (3-0) f s

Prerequisites: Graduate standing in EE and approval of adviser

This course provides an opportunity for small groups of advanced graduate students to study, under the direction of qualified members of the professional staff, advanced topics in their special fields of interest.

Graduate Staff

ENGINEERING — — — — —

E 100 INTRODUCTION TO ENGINEERING

1 (1-0) f

Introduces the student to the profession of engineering and the characteristics and requirements of the study of engineering.

Mr. Lampe

E 500 ENGINEERING ANALYSIS

3 (3-0)

Prerequisite: Senior standing and selection for Honor's Program in Engineering
This is an engineering "case method" experience, making use of the principles of engineering, physics, and mathematics. Professors in Engineering and certain key individuals from industry will work singly with the professor in charge to introduce challenging engineering situations and to stimulate student analysis.

ENGINEERING MECHANICS — — — — —

COURSES FOR ADVANCED UNDERGRADUATES

EM 311 MECHANICS I (STATICS)

3 (3-0) f s

Prerequisites: PY 201 or 211; MA 201 or 211
Study of the analytical and graphical solution for the resultant and equilibrium of concurrent, parallel, and non-concurrent non-parallel force systems under coplanar or non-coplanar conditions. The application of statics to pin connected members, trusses and cables; friction; centroids; and moments of inertia. Shear and bending moment equations and diagrams.

EM 312 MECHANICS II (DYNAMICS)

3 (3-0) f s

Prerequisite: EM 311
The kinematic and kinetic study of motion of particles and rigid bodies; absolute and relative motion; Coriolis Law; methods of force, mass and acceleration; work and energy; impulse and momentum. Variable motion, simple harmonic motion, simple balancing of rotating parts.

EM 321 STRENGTH OF MATERIALS I

3 (3-0) f s

Prerequisite: EM 311
Simple stresses and strains in tension, compression, shear and torsion; external cross shear and bending moments in beams; internal stresses in beam and their distribution throughout the cross section; design of beams; slope and deflection of beams; statically indeterminate reactions of restrained beams; study of stresses at a point by Mohr's circle; column theory; design of axially and eccentrically loaded columns.

EM 341 MECHANICS A (STATICS)

2 (2-0) f s

Prerequisites: PY 201 or 211 and MA 201 or 211
Forces, resultants and equilibrium of concurrent, parallel and non-concurrent non-parallel force systems; statics applied to engineering problems and the solution of stress in simple trusses. Centroids and moments of inertia. This course is a condensation of EM 31 and with less emphasis.

EM 342 MECHANICS B (DYNAMICS)

2 (2-0) f s

Prerequisite: EM 341 or 311
The kinematic and kinetic study of motion of particles and rigid bodies; absolute and relative motion. Methods of force, mass and acceleration; work and energy impulse and momentum. This course is a condensation of EM 312 and with less emphasis.

EM 343 STRENGTH OF MATERIALS A

2 (2-0) f s

Prerequisite: EM 311 or 341
Axial and shear stresses and strains; pure torsion of circular shafts; external shears and moments; the distribution of internal shearing and bending stresses; introduction to deflection theory; column theory; design of axially loaded columns.

EM 430 FLUID MECHANICS

2 (2-0) f s

Prerequisite: EM 312 or 342
Fluid statics, kinematics, Bernoulli equation, momentum, free-surface flow, viscosity, pipe friction, drag on submerged bodies, lift, elastic wave propagation.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

EM 531 HYDRAULIC MACHINERY

2 (2-0) f s

Prerequisite: EM 430
Theory of lift and application to propellers, fans; blade theory including generalized Bernoulli equation, angular impulse, and angular momentum; forced and free vortex; impulse, reaction, and propeller turbines; positive displacement pumps, centrifugal pumps; propagation in pipes and surge tanks; fluid couplings and torque converters.

EM 551 ADVANCED STRENGTH OF MATERIALS

3 (3-0) f s

Prerequisite: EM 321

Stresses and strains at a point by Mohr's circle; rosette analysis; stresses in eccentrically loaded joints, membrane stresses in shells, stress theories, linear deflection of trusses; stresses in curved bars; steel and rubber springs; composite beams.

EM 554 VIBRATION PROBLEMS

3 (3-0) f s

Prerequisites: EM 321; MA 401

Free vibrations without damping, natural frequency, forced vibrations without damping; balancing of rotating and reciprocating machinery, free vibrations with damping; forced vibrations with damping; vibration of systems with several degrees of freedom; shock and sound isolation; application of isolators.

EM 556 ADVANCED MECHANICS

2 (2-0) f 3

Prerequisite: EM 312

Virtual work; stability; balancing; elastic impact and waves; governors, LaGrangian equations of motion three-dimensional dynamics of rigid body gyroscopes derivation from Kepler's laws of Newton's law of gravitation.

COURSES FOR GRADUATES ONLY

EM 601 APPLIED ANALYSIS IN STRENGTH OF MATERIALS

3 (3-0) f s

Prerequisites: EM 321; MA 401

Linear and angular deflections of trusses and beams; superposition, redundant reactions of statically indeterminate trusses and beams; stresses in thin-webbed curved beams; stresses in square and curved knees; torsion in rolled profiles; design of beams for bending and torsion; curved beams with load normal to the plane of curvature, space framework; infinite, semi-infinite beams on elastic foundations.

EM 602 THEORETICAL AND APPLIED ELASTICITY

3 (3-0) f s

Prerequisites: EM 321; MA 401

Buckling by torsion and flexure; lateral instability of beams and beam-columns; tapered and built-up columns; local failures; the four-moment theorem; stresses in circular and rectangular plates; stress concentrations. In the above topics, theory is developed and the resulting equations solved by classical or numerical methods. Results are compared with leading design specifications.

EM 605 RESEARCH IN STRENGTH OF MATERIALS

3 (3-0) f s

Special problems and investigations.

EM 606 RESEARCH IN MECHANICAL VIBRATIONS

3 (3-0) f s

Special problems in investigations.

EM 607 RESEARCH IN FLUID MECHANICS

3 (3-0) f s

Special problems in investigations.

EM 608 ADVANCED FLUID MECHANICS

2 (2-0) f s

Prerequisite: EM 430

Potential motion; vortex theory; Navier-Stokes equations; theories of turbulence; theory of boundary layer; boundary separation; unsteady flow vibrations of fluids.

EM 610 ENGINEERING MECHANICS SEMINAR

1 (1-0) f s

Reports, discussions, and preparation of papers.

EM 611 SIMILITUDE FOR ENGINEERS

2 (2-0) f s

Prerequisites: EM 321, 430

Standard deviation and rejection of data; dimensional analysis, Buckingham Pi Theorem, theory of models: structural models, distorted structural models, fluid flow models, thermal models; analogs and their use in engineering experimentation.

—ENGLISH

FRESHMAN ENGLISH

ENG 100 ENGLISH REFRESHER

3 (3-0) f s

A course for students deficient in English. Special attention will be given to individual problems in grammar, reading, and writing. Note: Though the course is basically non-credit, arrangements will be made to give credit for English 111 to students who demonstrate sufficient progress and are willing to do additional work. This course is offered each semester. No student will be allowed to schedule it for more than one semester.

ENGLISH

ENG 111, 112 COMPOSITION (BASIC COMMUNICATIONS SKILLS)

3 (3-0) f s

Required of all freshmen

Intensive practice in composition, with review in grammar and usage; reading and analysis of basic types of communication, with primary emphasis on comprehension; directed supplementary reading; oral and written reports; conferences.

WRITING

ENG 211 BUSINESS COMMUNICATIONS

3 (3-0) f s

Prerequisite: ENG 112

Practical application of the principles of composition to effective business communications, including basic types of correspondence and reports. Special attention will be paid to vocabulary building, and work will be given in oral business communications.

ENG 215 PRINCIPLES OF NEWS AND ARTICLE WRITING

3 (3-0) f s

Prerequisite: ENG 112

Introduction to the writing of simple news articles; class criticism of non-technical newspaper and magazine articles.

ENG 216 ADVANCED ARTICLE WRITING

3 (3-0) s

Prerequisites: ENG 112 and 215 or equivalent

A continuation of ENG 215, with intensive practice in writing and criticizing non-technical articles.

ENG 222 ADVANCED COMPOSITION (CREATIVE WRITING)

3 (3-0) s

Prerequisite: ENG 112

A course in creative writing especially designed for students who have demonstrated ability; emphasis on short prose fiction.

ENG 223 VOCABULARY BUILDING

3 (3-0) s

Prerequisite: ENG 112

A system of increasing the student's supply of useful words as found in the best modern English prose.

ENG 321 SCIENTIFIC WRITING

3 (3-0) f s

Prerequisite: ENG 112

Intensive practice in writing technical and scientific reports, articles for journals, and business letters relating to technical reports.

ENG 324 ADVANCED GRAMMAR

3 (3-0) s

An intensive study of English grammar with attention to the historical development of the language and with special emphasis on contemporary usage.

SPEECH

ENG 231 BASIC SPEAKING SKILLS

3 (3-0) f s

Prerequisite: ENG 112

Training in the fundamentals of public speaking; supplementary training in some aspects of group discussion (panel, forum, symposium, or committee) and in the techniques of good listening.

ENG 332 ARGUMENTATION AND PERSUASION

3 (3-0) f

Prerequisite: ENG 231 or equivalent

Analysis, brief-drawing and evidence, and methods of proof and refutation; fundamentals of conviction: naturalness and forcefulness, extempore speeches, debates, and discussions.

ENG 333 PUBLIC ADDRESS AND EXTEMPORANEOUS SPEAKING

3 (3-0) s

Prerequisite: ENG 231 or equivalent

Public speaking for special occasions, including speech of introduction, committee-room speech, after-dinner speech, speech at professional convention, political speech, formal sales talk.

ENG 334 ORAL READING

3 (3-0) f

Prerequisites: ENG 112 and 231, or approval of the department

Training in the analysis and presentation of printed materials, technical and semi-technical, for platform, radio, and television. Emotional reactions to add color and interest; expressive body and voice; correction of faulty habits.

ENG 336 PARLIAMENTARY PRACTICE

3 (3-0) f s

Prerequisite: ENG 112

(Not to be counted toward the fulfillment of any requirement in languages, humanities, or social sciences without specific authorization.)

Rules and customs of assemblies, including organization, motions; participation in and conduct of meetings; parliamentary strategy.

ENG 337 GROUP DISCUSSION

3 (3-0) f

Prerequisites: ENG 112 and 231, or approval of the department

The theory and practice of leading and taking part in such groups as panels, forums, symposia, conferences and committees. Oral and written assignments. Frequent recordings.

LITERATURE

Note: ENG 111 and 112 are prerequisites to all courses in literature

ENG 205 READING FOR DISCOVERY

3 (3-0) f s

A study of selected poems, plays, and short stories drawn from English, American, and European literature with emphasis on the great themes of literature and on the approach of the creative artist to basic ideas in Western culture.

ENG 361 BACKGROUNDS OF ENGLISH CIVILIZATION (I)

3 (3-0) f

A reading course in English literature from the Anglo-Saxon invasions to the Romantic period, with an emphasis on the contributions of English life and thought to Western Civilization.

ENG 362 BACKGROUNDS OF ENGLISH CIVILIZATION (II)

3 (3-0) s

English literature from the Romantic period to the present day. This course may be taken either as a continuation of ENG 361 or as an independent course.

ENG 365 THE AMERICAN MIND (I)

3 (3-0) f

The development of American thought and civilization as reflected in American literature from the colonial settlements through the New England revival of the nineteenth century.

ENG 366 THE AMERICAN MIND (II)

3 (3-0) s

The background of contemporary American literature and thought, from Mark Twain to Hemingway and Faulkner. This course may be taken either as a continuation of ENG 365 or as an independent course.

ENG 375 SOUTHERN WRITERS

3 (3-0) s

An introduction to Southern culture as revealed in poetry and short fiction from Poe to the present day. Readings in the Southern essay dealing with social, political, and literary problems.

ENG 382 SHORT PROSE FICTION

3 (3-0) f

The study of selected short stories by the most representative of contemporary British and American writers.

ENG 385 SHAKESPEARE

3 (3-0) s

A study of the principal plays with emphasis on reading Shakespeare for enjoyment.

ENG 396 LITERATURE OF THE WESTERN WORLD (I)

3 (3-0) f

Readings from selected great books from the Homeric period of Greek literature to the Renaissance in Europe. Emphasis on the contributions of this literature to modern thought.

ENG 397 LITERATURE OF THE WESTERN WORLD (II)

3 (3-0) s

Readings from selected great books from the Renaissance to the twentieth century with emphasis on literary appreciation and on the development of important concepts underlying contemporary life in the Western World. This course may be taken either as a continuation of ENG 396 or as an independent course.

ENG 398 CONTEMPORARY LITERATURE

3 (3-0) s

A study of selected examples of American, British, and Continental writing from 1915 to the present day with reference to changing literary forms and themes.

ENTOMOLOGY

COURSES FOR UNDERGRADUATES

ENT 301 INTRODUCTION TO FOREST INSECTS

3 (2-2) f

Prerequisite: School of Forestry

Mr. Brett

An introductory course covering the fundamentals of classification, development, habits and control of forest insects

ENT 312 ECONOMIC ENTOMOLOGY

3 (2-2) s

Prerequisite: ZO 101

A basic course, covering the fundamentals of insect classification, development, food habits and controls.

Mr. Brett

ENTOMOLOGY

ENT 322 BEEKEEPING

3 (1-4) s

Prerequisite: Consent of Instructor

A basic course dealing with the place of the honeybee in our agricultural economy; the colony and its components; management; manipulation; honey production, care and marketing.

Mr. Stephen

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ENT 501, 502 INSECT MORPHOLOGY

3 (1-4) f s

Prerequisite: ENT 312

Covers general morphology, external and internal, of the insects and their relatives. ENT 501 will deal primarily with external morphology and ENT 502 with internal morphology.

(Given in odd years)

Mr. Townes

ENT 511 SYSTEMATIC ENTOMOLOGY

3 (1-4) f

Prerequisite: ENT 312

A somewhat detailed survey of the orders and families of insects, designed to acquaint the student with these groups and develop in the student some ability in the use of keys, descriptions, etc.

(Given in even years)

Mr. Mitchell

ENT 522 ENTOMOLOGICAL TECHNIQUE

3 (1-4) s

Prerequisite: ENT 312

A laboratory course designed to acquaint the student with the various methods and techniques commonly employed in entomology, including a brief introduction to drawing and the photographic process.

(Given in even years)

Mr. Mitchell

ENT 531 INSECT ECOLOGY AND BEHAVIOR

3 (3-0) f

Prerequisite: ENT 301 or 312

The influence of environmental factors on insect development, distribution and behavior.

(Given in even years)

Mr. Brett

ENT 541, 642 IMMATURE INSECTS

4 (2-4) f

2 (1-2) s

Prerequisite: ENT 511 or permission of instructor

541 is a study of the characteristics of the immature forms of the orders and principal families of insects. 542 is a detailed study of the immature forms of some special group of insects of the students' own choosing.

(Given in even years)

Mr. Dogger

ENT 551, 552 APPLIED ENTOMOLOGY

3 (2-2) f s

Prerequisite: ENT 312

An advanced course in which the principles of applied entomology are studied in respect to the major economic insect pests. Methods of determining and examining insect damage, the economic importance of insects and the chief economic pests of man, food, and fiber are studied as well as laws and regulations pertaining to insects and insecticides.

(Given in odd years)

Mr. Kulash

ENT 561 LITERATURE AND HISTORY OF ENTOMOLOGY

3 (3-0) f

Prerequisite: ENT 312

A general course intended to acquaint the student with literature problems of the scientist, mechanics of the library and book classification, bibliographies of the zoological sciences, abstract journals, forms of bibliographies, forms of literature, preparation of scientific paper; taxonomic indexes and literature (with a historical background) and history of the development of zoological science from ancient to modern times with emphasis on entomology.

(Given in odd years)

Mr. Brett

ENT 571 FOREST ENTOMOLOGY

3 (2-2) f

Prerequisites: ENT 301 or 312

A study of methods of identification of forest pests, the factors governing their abundance, their habits, and the control of forest pests.

Mr. Kulash

EXPERIMENTAL STATISTICS

ENT 582 MEDICAL ENTOMOLOGY

3 (2-3) s

Prerequisite: Permission of instructor

A study of the morphology, biology and control of the parasitic arthropods of man, domestic and wild animals.
(Given in odd years)

Mr. Harkema

COURSES FOR GRADUATES ONLY

ENT 601, 602 PRINCIPLES OF TAXONOMY

3 (2-2) f

3 (1-4) s

Prerequisite: ENT 501

A course introducing the methods and tools used in animal taxonomy, designed to promote a better understanding of taxonomic literature, and provide a foundation for taxonomic research.

(Given in even years)

Mr. Townes

ENT 611 INSECT PHYSIOLOGY

4 (3-2) f

Prerequisite: Permission of instructor

The course deals with the aspects of animal physiology related to insects. The functions of the various insect organs are discussed and how these systems are disrupted by economic poisons. Laboratory work includes the use of standard physiological apparatus with emphasis on methods rather than obtaining results.

(Given in odd years)

Mr. Gast

ENT 621 INSECT TOXICOLOGY

4 (3-2) f

Prerequisite: Permission of instructor

The course deals with chemical and physical characteristics of insecticides and formulations and their effects on biological systems. Modes of action and mammalian toxicities are also discussed. Laboratory work involves insect culture work, formulating insecticides and evaluating the effectiveness of various materials.

(Given in even years)

Mr. Gast

ENT 632 ADVANCED SYSTEMATIC ENTOMOLOGY

3 (0-6) s

Prerequisite: ENT 501

A detailed study of some special insect group of the student's own choosing.

Mr. Mitchell

ENT 670 SPECIAL PROBLEMS

Credits by arrangement

Prerequisites: Graduate standing and consent of the instructor

Original research on special problems in entomology not related to a thesis problem, but designed to provide experience and training in research.

Staff

ENT 680 SEMINAR

1 1

Prerequisite: Graduate standing in Entomology or closely allied fields

Discussion of entomological topics selected and assigned by Seminar Chairman

Staff

ENT 690 RESEARCH

Credits by arrangement

Prerequisite: Graduate standing in Entomology or closely allied fields

Original research in connection with thesis problem in entomology.

Staff

— — — — — EXPERIMENTAL STATISTICS

COURSES FOR UNDERGRADUATES

ST 302 STATISTICAL LABORATORY

2 (1-2) s

The use of conventional IBM punch card machines with special emphasis on gathering data for punch cards, coding, designing card fields and the operation of the punch, verifier, sorter, collator, tabulator and the 602A calculating punch. Complete wiring techniques on the collator, tabulator and 602A calculating punch will be emphasized. Programming of large scale computations found in statistics on the conventional IBM equipment along with a survey of the methods used for programming on the card program calculator (CPC) will be given.

Mr. Verlinden

EXPERIMENTAL STATISTICS

ST 311 INTRODUCTION TO STATISTICS

3 (2-2) f s

This course will relate general statistical concept to everyday life and will emphasize giving perspective to these concepts in place of developing skill. Quantitative descriptions of populations, sampling ideas, techniques of making inference about populations from samples and the uncertainties involved in such inferences. Formulation and testing of hypotheses, elementary and basic statistical techniques.

Mrs. Carroll, Mr. Monroe

ST 361 INTRODUCTION TO STATISTICS FOR ENGINEERS

2 (2-0)

or 3 (2-2) f s

Prerequisite: College Algebra

Optional one credit laboratory with illustrative problems and instruction in use of desk calculators.

Survey of statistical techniques useful to engineers and physical scientists. Includes elementary probability, frequency distributions, estimation of means and standard deviations, sampling variation, control charts, elementary least squares curve fitting, etc.

Mr. Hader

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ST 501, 502 BASIC STATISTICAL ANALYSIS

4 (3-2) f s

Prerequisites: College Algebra and ST 311 or 361 or graduate standing

Description of classification and scaled data. Sampling from normal, uniform, binomial and multimodal populations: empirical distributions of various measures of location, dispersion, correlation, regression, significance tests, confidence intervals. Collection and analysis of data: surveys, regression, experimental designs, factorial data variance components, non-parametric methods and sequential analysis. Intended primarily as a parallel course to Statistics 521, 522 to be taken by Statistics majors or Ph.D. minors, but not intended as a service course for other departments.

Staff

ST 511 EXPERIMENTAL STATISTICS FOR BIOLOGICAL SCIENCES, I

4 (3-2) f

Prerequisite: ST 311 or graduate standing

Basic concept of statistical models and use of samples; variation and statistical measures; distributions; tests of significance; analysis of variance and elementary experimental design; regression and correlation; Chi-square.

Mr. Robinson

ST 512 EXPERIMENTAL STATISTICS FOR BIOLOGICAL SCIENCES, II

3 (3-0) s

Prerequisite: ST 511

Complex analysis of variance and design of experiments repeated over place and time, individual degrees of freedom, factorial and incomplete block designs; covariance; multiple regression and correlation.

Mr. Mason

ST 513 EXPERIMENTAL STATISTICS FOR SOCIAL SCIENCES, I

4 (3-2) f

Prerequisite: ST 311 or graduate standing

Basic concepts in collection and analysis of data. Variability of sample data, distributions, confidence limits, Chi-square, "t" test, analysis of variance, regression, correlation, analytic and descriptive surveys, basic experimental designs index numbers.

Staff

ST 514 EXPERIMENTAL STATISTICS FOR SOCIAL SCIENCES, II

3 (3-0) s

Prerequisite: ST 513

Extension of basic concepts of experimental statistics to social surveys and experiments; sampling from finite populations, sampling systems, unrestricted, stratified and multistage designs, random and systematic selection with varying probabilities, methods of estimation analysis of variance with multiple classification, covariance, multiple regression, polynomials.

Mr. Finkner

ST 515, 516 EXPERIMENTAL STATISTICS FOR ENGINEERS

3 (3-0) f

or 4 (3-2) f

3 (3-0) s

Prerequisite: ST 361 or graduate standing

One credit optional laboratory available first term only

General statistical concepts and techniques useful to research workers in engineering, textiles, wood technology, etc. Includes probability, distributions, measurement of precision, simple linear regression, tests of significance, analysis of variance enumeration data, sensitivity data, life testing experiments and experimental design.

Mr. Hader

EXPERIMENTAL STATISTICS

ST 521, 522 BASIC STATISTICAL THEORY

4 (3-2) f s

Prerequisites: ST 311 or graduate standing and undergraduate Calculus

This course will present the theory needed in all advanced courses in statistical analysis and some of the fundamentals for advanced theory courses.

Probability, frequency distributions and moments, sampling distributions; introductory theory of point and interval estimation and parametric and non-parametric tests of hypotheses; theory of least squares, multiple regression, analysis of variance and covariance and variance components.

Staff

ST 591 SPECIAL PROBLEMS

1-3 credits by arrangement f s

Development of techniques for specialized cases, particularly in connection with thesis and practical consulting problems.

Staff

COURSES FOR GRADUATES ONLY

ST 611, 612 INTERMEDIATE STATISTICAL THEORY

3 (3-0) f s

Prerequisites: ST 522, Advanced Calculus and Matrix Theory

This course will provide the additional theory above that of ST 521, 522 needed for advanced theory courses. Many of the topics in ST 521, 522 will be developed more rigorously and more attention will be paid to mathematical aspects. Central limit theorem and law of large numbers, bivariate normal distributions, convergence theorems. Method of maximum likelihood, efficient estimates, simultaneous confidence regions, general theory of tests of hypotheses, general linear hypothesis, sequential tests of hypotheses, distribution-free methods, Chi-square tests for frequency data.

Mr. Horvitz

ST 621 STATISTICS IN ANIMAL SCIENCE

3 (3-0) f

Prerequisite: ST 502 or 512

Sources and magnitudes of errors in experiments with animals, experimental designs and methods of analysis adapted to specific types of animal research, relative efficiency of alternate designs, amount of data required for specified accuracy, student reports on selected topics.

(Offered in odd-numbered years)

Mr. Lucas

ST 623 STATISTICS IN PLANT SCIENCE

3 (3-0) f

Prerequisite: ST 502 or 512

Principles and techniques of planning, establishing, and executing field and greenhouse experiments. Size, shape and orientation of plots, border effects, selection of experimental material, estimation of size of experiments for specified accuracy, scoring and subjective tests, subsampling plots and yields for laboratory analysis.

(Offered in odd-numbered years)

Mr. Mason

ST 626 STATISTICAL CONCEPTS IN GENETICS

3 (3-0) s

Prerequisites: Genetics 512, and ST 502 or 512 unless taken concurrently

Factors bearing on rates of change in population means and variances with special reference to cultivated plants and domestic animals: selection, inbreeding, magnitude and nature of genotypic and non-genotypic variability. Experimental and statistical approaches in the analysis of quantitative inheritance.

Mr. Comstock

ST 631 THEORY OF SAMPLING APPLIED TO SURVEY DESIGN

3 (3-0) f

Prerequisite: ST 502 or 512 or 514 or 516

Basic theory of sampling from a finite population, confidence limits and estimation of optimum sample size, comparison of different sample designs, methods and probabilities for selection and methods of estimation, choice of a sampling unit, double sampling, matched samples.

Mr. Finkner

ST 641 (RS 641) STATISTICS IN SOCIOLOGY

3 (3-0) f

Prerequisite: ST 513

The application of statistical methods in sociological research. Emphasis on selecting appropriate models, instruments and techniques for the more frequently encountered problems and forms of data.

Mr. Hamilton

ST 651 (AGC 651) ECONOMETRIC METHODS I

3 (3-0) f

Prerequisites: ST 514, ST 521, AGC 641 and AGC 642

Decision making under uncertainty. Stochastic elements in economic theories. Problems of model construction. Special techniques for analyzing simultaneous economic relations.

Graduate Staff

FIELD CROPS

ST 652 (AGC 652) ECONOMETRIC METHODS II

3 (3-0) s

Prerequisites: ST 513, ST 522, AGC 641 or AGC 642

Basic concepts of estimation and tests of significance as applied to economic data. Empirical sampling methods. Non-parametric methods; sequential testing. Extension of least squares methods to research in economics; production surfaces. Special topics in variance components and mixed models. Use of experimental designs in economic research. Elements of multivariate analysis. Techniques for analysis of time series.

Mr. Anderson

ST 661, 662 APPLIED MULTIVARIATE ANALYSIS

3 (3-0) f s

Prerequisites: ST 502 or 514 (Also analytical geometry and elementary properties of determinants)

The general multivariate model for experimental work, relations between multiple regression, analysis of variance and multivariate analysis, factor analysis, the generalized variance, the generalized Student ratio, intra-class correlations, testing compound symmetry between two sample covariance matrices, scale analysis, canonical correlation, testing for the rank of a correlation matrix.

Mr. Nicholson

ST 663 SPECIAL PROBLEMS IN MULTIVARIATE ANALYSIS

3 (3-0) f

Prerequisite: ST 661 or permission of instructor

A seminar course devoted to special problems in applied multivariate analysis particularly designed for advancing the use of these methods in specific research problems.

Staff

ST 664 PSYCHOLOGICAL ASPECTS OF FACTOR ANALYSIS

3 (3-0) s

Prerequisite: ST 661 or permission of instructor

History of factor analysis, theory of two-factors, fictitious factors, hierarchal order, need of group factors, the centroid method, communalities, common factor space estimation of factors, orthogonal and oblique factors, the problems of rotation, simple structure, second order factors.

Graduate Staff

ST 671 ADVANCED STATISTICAL ANALYSIS

3 (3-0) f

Prerequisites: ST 502 or 512, ST 522

General computational methods for linear regression; non-orthogonal data; carryover effects; orthogonal polynomials; response surfaces; non-linear systems; variance components for orthogonal and non-orthogonal data.

Mr. Anderson

ST 672 SPECIAL ADVANCED TOPICS IN STATISTICAL ANALYSIS

3 (3-0) s

Prerequisite: ST 671

Regression analysis with errors in both variables; transformation; enumeration data; discriminant functions; heterogeneous errors; non-parametric analysis.

Mr. Monroe

ST 674 ADVANCED TOPICS IN CONSTRUCTION AND ANALYSIS OF EXPERIMENTAL DESIGNS

3 (3-0) s

Prerequisites: ST 502 or 512 and ST 522

Inter-block analysis of incomplete blocks designs; partially balanced designs; confounding; data collected at several places and times; multiple factor designs; change-over trials; analysis of groups of means.

Miss Cox

ST 681 SEMINAR

1 (1-0) f s

A maximum of three credits is allowed toward the Master's degree, but any number toward the Doctorate.

Staff

ST 691 RESEARCH

Credits by arrangement f s

A maximum of nine credits is allowed toward the Master's degree; no limitation on credits in Doctorate programs.

FIELD CROPS

COURSES FOR UNDERGRADUATES

FC 211 FIELD CROPS I

3 (2-2) f s

Prerequisite: BO 102

Discussion of fundamental principles underlying crop production. The application of these principles to the major and minor field crops. The elements of plant identification, crop grading and judging.

Staff

FIELD CROPS

FC 311 FIELD CROPS II

Prerequisites: FC 211 and SOI 200

3 (2-2) f

Specific problems in field crop production other than forage crops. Discussion of those crops in farm rotations and brings together all the major aspects of crop production for different climatic areas.

Staff

FC 312 PASTURES AND FORAGE CROPS

Prerequisites: FC 211 and SOI 200

3 (3-0) s

A study of the production and preservation of the principal forage crops. Special attention is given to the development and maintenance of pastures.

Mr. Chamblee

FC 412 ADVANCED PASTURES AND FORAGE CROPS

Prerequisite: FC 312

2 (2-0) s

Pasture species and management (cultural treatment) from an international viewpoint, and the inter-relationship of grazing animals on pasture development and management will be emphasized. Natural grassland areas and the place of special plant species will be considered.

Staff

FC 413 PLANT BREEDING

Prerequisite: GN 411

3 (3-0) f

The application of genetic principles to the improvement of economic plants, including discussions of the methods employed in the development and the perpetuation of desirable clones, varieties, and hybrids.

Mr. Jones

FC 414 WEEDS AND THEIR CONTROL

Prerequisites: FC 211; CH 203 or equivalent

3 (2-2) s

Principles involved in cultural and chemical weed control. Discussions on chemistry of herbicides and the effects of the chemicals on the plant. Identification of common weeds and their seeds is given.

Mr. Klingman

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

FC 511 TOBACCO TECHNOLOGY

Prerequisites: FC 311 and approval of instructor

2 (2-0) f

A study of special problems concerned with the tobacco crop. The latest research problems and findings dealing with this important cash crop will be discussed.

Staff

FC 521 SPECIAL PROBLEMS

Credits by arrangement

Prerequisite: Students admitted only with consent of instructor

Special problems in various phases in Field Crops. Problems may be selected or will be assigned. Emphasis will be placed on review of recent and current research.

Staff

FC 541 PLANT BREEDING METHODS

Prerequisites: GN 512; ST 511 recommended

3 (3-0) f

An advanced study of methods of plant breeding as related to principles and concepts of inheritance.

Messrs. Mann and Haynes

FC 542 PLANT BREEDING FIELD PROCEDURES

Prerequisite: FC 541

2 (0-4)

(in Summer Sessions)

A laboratory and field study of the application of the various plant breeding techniques and methods used in the improvement of economic plants.

Messrs. Haynes and Mann

COURSES FOR GRADUATES ONLY*

FC 611 FORAGE CROP ECOLOGY

Prerequisites: FC 412; BO 441

2 (2-0) s

A study of the effect of environmental factors on the growth of forage crops. Attention will be given to methods of research in forage ecology.

Mr. Chamblee

*Students are to consult the instructor before registration.

FORESTRY

FC 612 SPECIAL TOPICS IN WEED CONTROL

2 (2-0) s

Prerequisites or corequisites: BO 203, BO 532, and FC 414

Detailed examination of current concepts in selected fields of weed control. The chemistry, physiology, ecology, taxonomy, microbiology, equipment, and techniques used in weed control research will be discussed.

Staff

FC 631 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

Scientific articles, progress reports in research, and special problems of interest to agronomists reviewed and discussed.

A maximum of two credits is allowed toward the Master's degree.

Staff

FC 641 RESEARCH

Credits by Arrangement

Prerequisite: Graduate standing

A maximum of six credits is allowed toward the Master's degree.

Staff

FORESTRY

COURSES FOR UNDERGRADUATES

FOR 101, 102 INTRODUCTION TO FORESTRY

2 (1-3) f s

The profession of Forestry, its scope and opportunities; conservation of natural resources; forestry field practice.

Mr. Preston

FOR 201 WOOD STRUCTURE AND PROPERTIES

3 (1-4) f

Identification, structure, properties and uses of woods of economic importance in the United States; identification by means of the hand lens is especially emphasized.

Mr. Slocum

FOR 202 ENGINEERING PROPERTIES OF WOOD

1 (0-3) f

An introduction to structure, identification, physical and mechanical properties of wood. Principles of lumber grading and yield in cuttings.

Mr. Carter

FOR s204 SILVICULTURE

2 credits

Sophomore Summer Camp

Growth and development of forest stands, reproduction counts, type of mapping, thinning, and weeding; establishment and measurement of sample plots.

Mr. Miller

FOR s214 DENDROLOGY

2 credits

Sophomore Summer Camp

Identification and study of trees in piedmont and mountain sections of North Carolina.

Mr. Slocum

FOR s224 FOREST MAPPING

2 credits

Sophomore Summer Camp

Field problems in forest mapping, including boundary location and type mapping.

Mr. Bryant

FOR s264 PROTECTION AND UTILIZATION

2 credits

Sophomore Summer Camp

Prevention, presuppression and suppression of forest fires, fire behavior.

Mr. Bryant

FOR s274 MENSURATION

2 credits

Prerequisite: CE 217

Sophomore Summer Camp

Collection of field data for stand and yield tables, stem analysis, and timber surveys.

Mr. Slocum

FOR 303 WOOD-MOISTURE RELATIONS

3 (2-2) s

Shrinking and swelling characteristics of wood; air seasoning; dry kiln construction; kiln operation; schedules and conditioning; lumber storage and moisture control during manufacture; dimensional stabilization methods, processes, equipment, and materials.

Mr. Carter

FOR 311 PRINCIPLES OF FARM FORESTRY

2 (1-3) f

The theory and practice of forestry with special reference to the handling of farm woodlands and the utilization of their products; the place of forestry in farm management and the agricultural economy.

Mr. Miller

FOR 321, 322 PULP AND PAPER TECHNOLOGY

3 (3-0) f s

Brief survey of the physical and chemical characteristics of wood and cellulose. Chemistry and technology of the major mechanical, chemical, and semi-chemical processes employed in the manufacture of pulp and paper.

Mr. Libby

FOR 361 SILVICS

3 (3-0) s

Site, soil, and other environmental factors in relation to the establishment, growth, and development of seedlings, trees, and timber stands; the influence of forest vegetation on site development, ground water, and micro-climate.

Mr. Maki

FOR 372 MENSURATION

3 (2-2) f

Prerequisite: FOR s274

The measurement of timber, both standing and felled; log rules, form factors, stem analysis and growth; methods of making volume, growth and stand tables; increment and yield studies; development of stand and yield tables from field data.

Mr. Slocum

FOR 401 WOOD PRESERVATION

2 (1-3) s

Factors causing wood deterioration; preservative materials and treatments; wood by-products from mill and forest waste.

Mr. Carter

FOR 402 FOUNDATIONS OF FOREST MANAGEMENT

2 (2-0) f

Prerequisites: FOR s274 or FOR 311

The integration of silviculture, forest measurements and economics in the management of woodland areas. (Not open to students majoring in forest management.)

Mr. Bryant

FOR 403 PAPER TECHNOLOGY LABORATORY

2 (0-12) s

(First 8 weeks)

Development of various types of paper finishes with particular attention to stock preparation, sizing, filling, and coloring. The finished products are tested physically and chemically and evaluated from the standpoint of quality and in comparison with the commercial products they are intended to duplicate.

Mr. Libby

FOR 404 MANAGEMENT PLANS

3 (1-6) s

Senior Camp

Application of management, logging, silvicultural and utilization practices on assigned areas. Each student must make a forest survey of an individual area and submit a record.

Staff

FOR 405 FOREST INVENTORY

2 (0-6) s

Senior Camp

Practical field work in timber estimating and compilation of field data.

Mr. Bryant

FOR 406 FOREST INDUSTRIES

2 (0-6) s

Senior Camp

A field study of logging, milling, and manufacturing with reports based on inspection trips.

Staff

FOR 407 FIELD SILVICULTURE

2 (0-6) s

Senior Camp

Prerequisite: FOR 361

Studies of forest communities; dendrology of the coastal section of North Carolina silviculture practices.

FOR 411 PULP AND PAPER MILL EQUIPMENT

3 (3-0) f

Principles of operation, construction, and design of process equipment employed in the pulp and paper industry.

Mr. Hitchings

FOR 412 PULP AND PAPER MILL EQUIPMENT

2 (1-3) s

Continuation of FOR 411

Mr. Hitchings

FOR 413 PAPER TESTING LABORATORY

2 (0-12) f (First 8 weeks)

Physical, chemical, and microscopical examination of experimental and commercial papers and evaluation of the results in terms of the utility of the product tested.

Mr. Libby

FORESTRY

FOR 421 LOG AND LUMBER GRADES AND SPECIFICATIONS

2 (1-3) s

Log and bolt grades and specifications in use; log grades based upon lumber grades; lumber grading principles and practices for hardwoods and softwoods.

Mr. Barefoot

FOR 422 FOREST PRODUCTS

3 (3-0) f

Prerequisites: FOR 201, CH 203 or 426

The source and method of obtaining derived and manufactured forest products other than lumber.

Mr. Barefoot

FOR 423 LOGGING AND MILLING

3 (2-3) f s

Timber harvesting and transportation methods, equipment, and costs; safety and supervision; manufacturing methods with regular and short-log types of sawmills.

Mr. Barefoot

FOR 431 DIMENSION STOCK MANUFACTURING

3 (2-3) f

Manufacturing and production methods for manufacturing dimension stock, flooring pre-fabricated stock, turnings, and cut stock. Production rates, plant layout and mechanization peculiar to the industry.

Mr. Carter

FOR 432 MERCHANDISING FOREST PRODUCTS

2 (2-0) f

Principles and practices in the distribution and marketing of the products obtained from wood; organization and operation of retail, concentration, and wholesale outlets.

Mr. Carter

FOR 433 GLUING AND PLYWOOD

3 (2-3) f

Prerequisites: CH 103 or 203, FOR 303

Veneer manufacturing methods and equipment; veneer products; cold-press and hot-press banding adhesives; processing and use requirements; cause and prevention of inadequate bands; molded, flat, and post-formed plywood construction.

Mr. Bethel

FOR 441 MECHANICAL PROPERTIES OF WOOD

3 (2-3) f

Prerequisites: FOR 201, 303

Strength and related properties of commercial woods; standard A.S.T.M. strength tests; toughness; timber fastenings; structural requirements; working stresses.

Mr. Hart

FOR 442 FURNITURE CONSTRUCTION AND ASSEMBLY

3 (2-3) f

Prerequisites: FOR 303, 433

Stock preparation for gluing; selecting adhesives; types of metal fastenings; joint construction and methods of joining wood and other materials; assembly methods for furniture and other wood products; construction and strength properties of laminated members.

Mr. Carter

FOR 443 WOOD FINISHING

3 (2-3) s

Prerequisites: FOR 201, CH 203 or 426

Preparation of wood surfaces for finish coatings; composition and application of paints, varnishes, repellents, lacquers, and other wood finishing materials; finishing furniture and interior wood products.

Mr. Carter

FOR 451 PAPER COLORING LABORATORY

2 (0-12) s (First 8 weeks)

Evaluation and identification of dyestuffs and the development of color formulas for dyeing pulp and paper.

Mr. Libby

FOR 452 FOREST GRAZING

2 (2-0) f

Management of range areas, all grazing regions with special consideration of the southeast.

Mr. Bryant

FOR 453 LUMBER STRUCTURES

3 (2-3) s

Prerequisite: FOR 441

Structural grades of lumber; working stresses; frame construction; construction estimates and computations; masonry, insulation, roofing, and other structural materials; millwork; fastenings; prefabs.

Mr. Wyman

FOR 461 PAPER CONVERTING

1 (1-0) f

A survey of the principal processes by which paper and paper board are fabricated into the utilitarian products of everyday use.

Mr. Libby

FORESTRY

FOR 462 ARTIFICIAL FORESTATION

2 (1-3) s

Production, collection, extraction, and storage of forest tree seeds; nursery practice; field methods of planting.

FOR 463 PLANT INSPECTIONS

1 (0-3) s

One week inspection trips covering representative manufacturers of pulp and paper and papermaking equipment.

Mr. Libby

FOR 471 PULP TECHNOLOGY LABORATORY

4 (0-12) l

Preparation and evaluation of the several types of wood pulp. The influence of the various pulping and bleaching variables on pulp quality are studied experimentally and these data evaluated critically.

Mr. Hitchings

FOR 472 FOREST POLICY AND ADMINISTRATION

2 (2-0) l

Civil timber law, illustrated by court cases; state and federal forest policy; job-load analysis in national forest administration.

Mr. Miller

FOR 481 PULPING PROCESSES AND PRODUCTS

2 (2-0) l

Prerequisites: FOR 201, CH 203 or 426

Fiber manufacturing processes and equipment; wall, insulation, and container board products; manufacture of roofing felts; pulp products manufacturing; resin treated and specialty products, lignin and wood sugar products.

Mr. Libby

FOR 482 PULP AND PAPER MILL MANAGEMENT

2 (2-0) s

A survey of the economics of the pulp and paper industry is followed by a study of the work of the several departments of a paper mill organization and the functions of the executives who administer them.

Mr. Libby

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

FOR 501 FOREST VALUATION

3 (2-3) l

The theory and techniques of valuation of forest land, timber stands, and forest practices as investments and for appraisals of damage. Risks and hazards in forestry as they apply to forest investments, forest insurance, and forest taxation.

Mr. Bryant

FOR 511 SILVICULTURE

3 (3-0) l

The principles and application of intermediate and reproductive methods of cutting; controlled burning, silvicides, and other methods of hardwood control. The application of silvicultural methods in the forests of the United States.

Mr. Miller

FOR 512 FOREST ECONOMICS

3 (3-0) l

Economics and social value of forests; supply of, and demand for forest products; land use; forestry as a private and a public enterprise; economics of the forest industries.

Mr. Bryant

FOR 513 TROPICAL WOODS

2 (0-4) s

Prerequisites: FOR 533

Structure, identification, properties, characteristics and use of tropical woods, especially those used in plywood and furniture.

Mr. Bethel

FOR 531 FOREST MANAGEMENT

3 (4-6) (First 8 weeks)

Prerequisites: FOR 372, 511

Management of timber lands for economic returns; the normal forest taken as the ideal; the application of regulation methods to the forest.

Mr. Maki

FOR 533 ADVANCED WOOD STRUCTURE AND IDENTIFICATION

2 (0-6) l

Prerequisite: FOR 201

Advanced microscopic identification of the commercial woods of the United States and some tropical woods; microscopic anatomical features and laboratory techniques.

Mr. Slocum

FOR 542 FIBER ANALYSIS

2 (0-6) s

Fiber microscopy, the determination of fiber measurement, quality, variation and identity in pulp woods.

Mr. Barefoot

FORESTRY

FOR 553 FOREST PHOTOGRAMMETRY

2 (2-6) s (First 8 weeks)

Interpretation of aerial photographs, determination of density of timber stands and area mapping.

Mr. Slocum

FOR 563 QUALITY CONTROL IN WOOD PRODUCT MANAGEMENT

3 (2-3) f

Prerequisites: ST 361, FOR 433

A study of methods used to control quality of manufactured and wood products. Emphasis is placed on the use of control charts for variables and attributes and on acceptance sampling techniques including single, double, and sequential sampling methods.

Mr. Bethel

FOR 573 METHODS OF RESEARCH IN FORESTRY

Credits Arranged

Research procedures, problem outlines, presentation of results; consideration of selected studies by forest research organizations; sample plot technique.

Staff

FOR 591 FORESTRY PROBLEMS

Credits Arranged

Assigned or selected problems in the field of silviculture, logging, lumber manufacturing, pulp technology, or forest management.

COURSES FOR GRADUATES ONLY

FOR 601 ADVANCED FOREST MANAGEMENT PROBLEMS

Credits Arranged

Directed studies in forest management

Staff

FOR 603 TECHNOLOGY OF WOOD ADHESIVES

3 (2-3) f s

Prerequisites: CH 425, 426; FOR 433

The fundamentals of adhesives as applied to wood-to-wood and wood-to-metal banding. Technology of adhesives. Preparation and use of organic adhesives. Testing of adhesives and evaluation of quality of adhesives and bonded joints.

Staff

FOR 604 TIMBER PHYSICS

3 (2-2) f s

Prerequisites: FOR 441, 533

Density, specific gravity and moisture content variations affecting physical properties; physics of drying at high and low temperatures; thermal, sound, light, and electrical properties of wood.

Staff

FOR 605 ⁶⁰⁵ DESIGN AND CONTROL OF WOOD PROCESSES

3 (2-2) s

Prerequisites: FOR 563, 603, 604

Study of design and operational control of equipment for machinery, drying, gluing, finishing and preserving woods.

Staff

FOR 621 ADVANCED TECHNOLOGY PROBLEMS

Credits Arranged

Selected research in the field of wood technology.

Staff

FOR 641 ADVANCED UTILIZATION PROBLEMS

Credits Arranged

Problems of an advanced grade in some phase of forest utilization.

Staff

FOR 671 PROBLEMS IN RESEARCH

Credits Arranged

Specific forestry problems that will furnish material for a thesis.

Staff

FOR 681 GRADUATE SEMINAR

1 (0-2) f s

Prerequisite: Graduate standing in Forestry or closely allied fields.

Presentation and discussion of progress reports on research, special problems, and outstanding publications in forestry and related fields.

Staff

GENETICS

COURSES FOR ADVANCED UNDERGRADUATES

GN 411 THE PRINCIPLES OF GENETICS

3 (2-2) f

Prerequisites: BO 102, ZO 101

An introductory course. The physical basis of inheritance; genes as units of heredity and development; qualitative and quantitative aspects of genetic variation.

Messrs. Stephens and Grosch

222

3

For 606, Wood Process Anal.

For 607, Advanced Quality Control

3

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

GN 512 GENETICS

4 (3-2) f

Prerequisite: GN 411

Intended for students desiring more thorough and detailed training in fundamental genetics with some attention to physiological aspects. (Students conduct individual laboratory problems.)

Mr. Grosch

GN 513 CYTOGENETICS I

4 (3-2) f

Prerequisite: GN 411

Recommended: GN 512

Variations in the chromosomal mechanisms of inheritance and their genetic consequences. The chromosomes as they affect breeding behavior in plants and animals. Lectures and laboratory.

Mr. Gerstel

**GN 540 PRINCIPLES OF EVOLUTION

3 (3-0) f

Prerequisite: GN 411

Recommended: GN 513

The theory of evolution and the various sources of evidence on which it is based.

Mr. Gregory

GN 541 PLANT BREEDING METHODS

3 (3-0) f

Prerequisite: GN 521

Recommended: ST 511

An advanced study of methods of plant breeding as related to principles and concepts of inheritance.

Messrs. Mann, Haynes

GN 542 PLANT BREEDING FIELD PROCEDURES

2 (0-4)

(in summer sessions)

Prerequisite: GN 541

A laboratory and field study of the application of the various plant breeding techniques and methods used in the improvement of economic plants.

Messrs. Haynes and Mann

The following courses, offered in other departments, are available for graduate credit in Genetics:

GN 503 (See AI 503 Animal Breeding).

3 (3-0) f

GN 520 (See PO 520 Poultry Breeding).

3 (3-0) f

**GN 532 (See ZO 532 Biological Effects of Radiations).

3 (3-0) s

COURSES FOR GRADUATES ONLY

* GN 614 CYTOGENETICS II

5 (3-4) s

Prerequisite: GN 513

Lecture: The facts and theories of chromosome structure, mechanics and behavior. The cytogenetic analysis of natural populations.

Laboratory: Prepared slides illustrating the lecture material. Student preparation and analysis of cytological materials.

Mr. Smith

** GN 620 GENETIC CONCEPTS OF SPECIATION

3 (3-0) s

Prerequisites: GN 512 and either GN 513 or 540

Review of current ideas on the mechanisms of the origin of species and the nature of species differentiation.

Mr. Stephens

* GN 621 GENETICS OF POPULATION

3 (3-0) s

Prerequisite: GN 512

Recommended: GN 540

Review of the forces molding the genetic structure of natural and artificial populations of plants and animals.

Mr. Lewontin

* GN 633 PHYSIOLOGICAL GENETICS

3 (3-0) s

Prerequisite: GN 512

Recent advances in physiological genetics. Attention will be directed to literature on the nature and action of genes, and to the interaction of heredity and environment in the expression of the characteristics of organisms.

Mr. Grosch

GEOLOGICAL ENGINEERING

GN 641 COLLOQUIUM IN GENETICS

3 (3-0) f s

Prerequisites: Graduate standing, consent of instructor
Informed group discussion of prepared topics assigned by instructor.

Staff

GN 651 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

GN 661 RESEARCH

Arranged

Prerequisite: Graduate standing

Original research related to the student's thesis problem. A maximum of six credits for the Master's degree; by arrangement for the Doctorate.

The following courses, offered in other departments, are available for graduate credit in Genetics:

GN 602 (see AI 602 Advanced Animal Breeding).

3 (3-0) s

GN 626 (see ST 626 Statistical Concepts in Genetics).

3 (3-0) s

* Given 1956-57 and alternate years

** Given 1957-58 and alternate years

GEOLOGICAL ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

MIG 101 EARTH SCIENCE

3 (3-0) s

Elective. Not to be taken after MIG 120

Introductory course in General Geology; changes in the earth, and underlying physical and life processes.

Staff

MIG 120 PHYSICAL GEOLOGY

3 (2-3) f s

Dynamic processes acting on and within the earth; materials and makeup of the earth's crust; emphasis on engineering and agricultural applications in the southeast. Lectures laboratories, and field trips.

Staff

MIG 207, 208 EX. PHYSICAL GEOGRAPHY

3 (3-0) f s

A. The processes and forces involved in the development of land forms.

B. The physiographic provinces of the United States and their importance; physical geography of North Carolina.

Staff

MIG 222 HISTORICAL GEOLOGY

3 (2-3) s

Prerequisite: MIG 120

Major events in the history of North America; rise and development of main animal and plant groups. Lectures, laboratories and field trips.

Staff

MIG 323 PALEONTOLOGY

3 (2-3) f s

Prerequisite: MIG 222

Study of fossil life forms, with major emphasis on classification and structure of the invertebrate animals and their application to problems of correlation of strata. Lectures, laboratories and field trips.

Staff

MIG 325 GEOLOGY AND MINERAL RESOURCES OF NORTH CAROLINA

3 (2-3) f s

Prerequisite: MIG 120

Physical geography, general geology, common rocks and minerals, and mines and quarry products of the State. Lectures, laboratories, and field trips.

Staff

MIG 330 MINERALOGY

3 (1-6) f

Prerequisite: CH 103

Crystallography, and physical and chemical mineralogy. Lectures and laboratory work
Mr. Miller

MIG 351 STRUCTURAL GEOLOGY

3 (2-3) f

Prerequisite: MIG 120

Structures imposed on igneous, sedimentary, and metamorphic rock masses by deformation and movement in the earth's crust. Lectures, laboratories, and field trips.

Mr. Parker

GEOLOGICAL ENGINEERING

MIG 372 ELEMENTS OF MINING ENGINEERING

4 (2-6) s

Prerequisite: MIG 351

Introduction to mining: methods of development and exploitation, drilling and blasting, mining law, administration and safety. Lectures, laboratory work and field trips.

Mr. Miller

MIG 411, 412 ECONOMIC GEOLOGY

3 (2-3) f s

Prerequisites: MIG 120, 330

Mode of occurrence, association, origin, distribution, and uses of economically valuable minerals. Lectures, laboratories, and field trips.

Staff

MIG 442 PETROLOGY

3 (2-3) s

Prerequisites: MIG 120, 330

Materials of the earth's crust: composition, texture, classification, megascopic identification, and alterations of the principal igneous, sedimentary, and metamorphic rocks. Lectures, laboratories, and field trips.

Mr. Parker

MIG 452 SEDIMENTATION AND STRATIGRAPHY

3 (2-3) s

Prerequisite: MIG 442

Sedimentary processes, products, and structures. Principles of sub-division of sedimentary terranes into natural units and the determination of their ages and history. Lectures, laboratories, and field trips.

Mr. Parker

MIG 461 ENGINEERING GEOLOGY

3 (3-0) i

Prerequisite: MIG 120

The application of geologic principles to engineering practice; analysis of geologic factors and processes affecting specific engineering projects.

Mr. Miller

MIG 462 GEOLOGICAL SURVEYING

3 (1-6) s

Prerequisites: MIG 351, 442

Methods of field observation and use of geologic surveying instruments in surface and underground work; representation of geologic features by maps, sections and diagrams. Lectures, laboratories, and field work.

Messrs. Parker, Miller

MIG 481, 482 SENIOR SEMINAR

1 (1-0)

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

MIG 510 MINERAL INDUSTRY

3 (3-0) s

Prerequisite: Permission of instructor

Economics of mineral industry. Cycles of mineral production. Exhaustibility. Reserves. Valuation of mineral property. National resources; essential, critical, and strategic minerals. World distribution and production.

Mr. Parker

MIG 522 PETROLEUM GEOLOGY

3 (3-0) s

Prerequisites: MIG 351, 442

Properties, origin and modes of occurrence of petroleum and natural gas. Geologic and economic features of the principal oil and gas fields, mainly in the United States

Staff

MIG 531 OPTICAL MINERALOGY

3 (1-4) f

Prerequisites: MIG 330 and CY 202

Optical principles involved in the petrographic (polarizing) microscope and related instruments. Microscopic determination of minerals in thin section and in fragments. Lectures and laboratory work.

Mr. Parker

MIG 552 GEOPHYSICS

3 (2-3) s

Prerequisites: MIG 351, PY 202

Fundamental principles underlying all geophysical methods; procedure and instruments involved in gravitational, magnetic, seismic, electrical and other methods of studying geological structures and conditions; study of applications and interpretations of results

Mr. Miller

MIG 571, 572 MINING AND MINERAL DRESSING

3 (2-3) f s

Prerequisite: MIG 372

Principles of the mineral industry; mining laws, prospecting, sampling, developments, drilling, blasting, handling, ventilation and safety, administration surveying, assaying; preparation, dressing and marketing.

Mr. Miller

HISTORY AND POLITICAL SCIENCE

MIG 581 GEOMORPHOLOGY

3 (2-3) 1

Prerequisite: MIG 442

A systematic study of land forms and their relations to processes and stages of development and adjustment to underlying structure. Lectures, map interpretations, and field trips.

Staff

COURSES FOR GRADUATES ONLY

MIG 611, 612 ADVANCED ECONOMIC GEOLOGY

3 (3-0) f s

Prerequisites: MIG 411, 412

Detailed study of the origin and occurrence of specific mineral deposits.

Staff

MIG 632 MICROSCOPIC DETERMINATION OF OPAQUE MINERALS

3 (2-3) s

Prerequisite: MIG 531

Identification of metallic, opaque minerals in polished sections by physical properties, etch reactions and microchemical tests. Laboratories.

Staff

MIG 642 ADVANCED PETROGRAPHY

3 (2-3) s

Prerequisites: MIG 442, 531

Application of the petrographic microscope to the systematic study of the composition and origin of rocks; emphasis on igneous and metamorphic rocks.

Parker

MIG 681, 682 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

Scientific articles, progress reports and special problems of interest to geologists and geological engineers discussed.

Staff

MIG 691 GEOLOGICAL RESEARCH

3 or 6

Prerequisite: Permission of the instructor

Lectures, reading assignments, and reports; special work in Geology to meet the needs and interests of the students.

Staff

HISTORY AND POLITICAL SCIENCE — — — — —

COURSES IN HISTORY FOR UNDERGRADUATES

HI 201 THE ANCIENT WORLD

2 (2-0) 1

A history of ancient times from the rise of civilization in Egypt and Babylonia to the decline of Rome in the fifth century. Emphasis is placed upon the evolution of cultures and civilizations, and upon the development of art, science, literature, and philosophy.

HI 202 THE MEDIEVAL WORLD

2 (2-0) s

The political, economic, social, and cultural developments from the decline of the Roman Empire in the West to the emergence of the modern period.

HI 205 THE MODERN WESTERN WORLD

3 (3-0) f s

A history of major movements in the Western World from the Renaissance to the present

HI 225, 226 MODERN EUROPE

3 (3-0) f s

A study of the political, economic, intellectual, and social developments in Europe from the age of Columbus to the present. The course divides at 1815. The semesters may be taken separately.

HI 251 THE UNITED STATES TO 1865

3 (3-0) 1

A study of major historical developments in the growth of the American nation through the Civil War.

HI 252 THE UNITED STATES SINCE 1865

3 (3-0) f s

A study of major historical developments in the growth of the American nation since the Civil War.

HI 261 THE UNITED STATES IN WESTERN CIVILIZATION

3 (3-0) f s

An analysis of major developments in American history, with American history considered as part of the historical development of modern western civilization.

HI 301, 302 AMERICAN ECONOMIC HISTORY

3 (3-0) f s

A history of economic institutions and customs in the United States from the time of the transfer to the New World of European economic customs to the present. The course divides at 1860. The semesters may be taken separately.

HISTORY AND POLITICAL SCIENCE

HI 306 NORTH CAROLINA HISTORY

2 (2-0) s

The political, social, and economic developments of North Carolina from colonial beginnings to the present.

HI 331 THE OLD SOUTH

3 (3-0) f

The intellectual and cultural history of the Old South and of ante-bellum society from the end of the colonial period to the Civil War.

HI 332 THE NEW SOUTH

3 (3-0) s

A study of the political, economic, and social developments in the South from the Civil War to the present.

HI 333 AMERICAN AGRICULTURAL HISTORY

3 (3-0) f

Historical developments of agricultural activity in the United States from the transfer of western European agriculture to America to the present, with particular emphasis on the historical place and importance of agriculture in American life.

HI 367 MODERN WESTERN ECONOMIC HISTORY

3 (3-0) s

A treatment of the historical development of the economic customs and institutions of the western world during the modern period, beginning with the Commercial Revolution.

HI 401 RUSSIAN HISTORY

3 (3-0) f

This course presents the major trends in Russian social, political, economic, and cultural history, with emphasis on the nineteenth and twentieth centuries. USSR policy is studied in relation to the full sweep of Russian history.

HI 402 ASIA AND THE WEST

3 (3-0) s

A history of Asia from the mid-nineteenth century to the present, with emphasis on Asian nationalism and conflict with the imperial powers.

HI 409 COLONIAL AMERICA

2 (2-0) f

A study of the development of the American colonies in the seventeenth and eighteenth centuries, with special emphasis on European backgrounds.

HI 412 RECENT UNITED STATES HISTORY

3 (3-0) f s

A study of the main currents in American political, economic, social and diplomatic history of the twentieth century.

HI 422 HISTORY OF SCIENCE

3 (3-0) s

A study of the evolution of science from antiquity to the present with particular attention given to the impact of scientific thought upon selected aspects of western civilization. The course provides a broad perspective of scientific progress and shows the interrelationship of science and major historical developments.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

HI 534 (SAME AS RS 534). FARMERS' MOVEMENTS

3 (3-0) s

A history of agricultural organizations and movements in the United States and Canada principally since 1865, emphasizing the Grange, the Farmers' Alliance, the Populist revolt, the Farmers Union, the Farm Bureau, the Equity societies, the Nonpartisan League, cooperative marketing, government programs, and present problems.

COURSES IN POLITICAL SCIENCE FOR UNDERGRADUATES

PS 201 THE AMERICAN GOVERNMENTAL SYSTEM

3 (3-0) f s

A study of the American federal system, integrating national and state government, with emphasis on constitutional principles, major governmental organs, governmental functions, and the politics and machinery of elections. Some attention is given to other types of political systems, and comparisons are made where relevant throughout the course.

PS 202 COUNTY AND MUNICIPAL GOVERNMENT

3 (3-0) f s

This course examines the principal types of county and city government and the functions performed by counties and cities including functional relationships with the state and national governments.

PS 301 COMPARATIVE POLITICAL SYSTEMS

3 (3-0) f

An analytical study of the federal and unitary systems and the presidential, parliamentary, and authoritarian plans of government, with special attention to the governments of the United Kingdom, France, Germany, Italy, and the Soviet Union.

HORTICULTURE

PS 302 CONTEMPORARY WORLD POLITICS **3 (3-0) f s**
A study of the pattern of international life, the instruments of national policy, the controls upon international behavior, and the major problems in international relations since World War II, including the development of the United Nations and various regional arrangements. Attention is given to the national interests and foreign policies of the states belonging to the Western and Soviet blocs, with emphasis on the position of the United States.

PS 401 AMERICAN PARTIES AND PRESSURE GROUPS **3 (3-0) f s**
After a brief survey of those features of American government essential to an understanding of the political process, the course proceeds to examine the American electorate and public opinion and devotes its major attention to the nature, organization, and programs of pressure groups and political parties and to their efforts to direct opinion, gain control of government, and shape public policy. Special attention is given to party organization and pressure group activity at the governmental level and to recent proposals to improve the political party as an instrument of responsible government.

PS 406 PROBLEMS IN NORTH CAROLINA GOVERNMENT **2 (2-0) s**
Prerequisite: PS 201 or an acceptable substitute.
Selected problems arising from the operation of the legislative, administrative, and judicial machinery in North Carolina. In addition to acquiring a comprehensive view of these problems each student will make an intensive study of a special phase of one of them.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PS 501 MODERN POLITICAL THEORY **3 (3-0) f**
Prerequisite: Consent of the instructor.
A study of the state and its relationship to individuals and groups, approached through the reading of selected passages from the works of outstanding philosophers from the sixteenth century to the present.

PS 502 PUBLIC ADMINISTRATION **3 (3-0) f**
Prerequisite: Consent of the instructor.
A study of the principles and problems of administration in a democracy, including such matters as organization, personnel, fiscal management, relationship to the legislative and judicial functions, control of administrative agencies and policies, and public relations.

PS 503 INTERNATIONAL ORGANIZATION **2 (2-0) s**
Prerequisite: Consent of the instructor.
A study of the evolving machinery and techniques of international organization in the present century with particular emphasis on recent developments. The actual operation of international organization will be illustrated by the study of selected current international problems.

PS 512 AMERICAN CONSTITUTIONAL THEORY **3 (3-0) s**
Prerequisite: Consent of the instructor.
Basic constitutional doctrines, including fundamental law, judicial review, individual rights and political privileges, and national and state power. Special attention is given to the application of these doctrines to the regulation of business, agriculture, and labor and to the rights safeguarded by the First, Fifth, and Fourteenth Amendments to the Constitution.

HORTICULTURE — — — — —

COURSES FOR UNDERGRADUATES

HRT 201, 202 WOODY PLANTS **3 (1-4) f s**
Distribution, identification, adaptation, culture and use of ornamental trees, shrubs and vines in landscape planting.
Mr. Randall

HRT 212 HERBACEOUS PLANTS** **2 (0-4) s**
Distribution, identification, adaptation, culture and use of ornamental herbaceous perennial and annual plants in landscape planting.
Mr. Randall

HRT 222 INTRODUCTION TO HORTICULTURE **3 (3-0) f s**
To give the student a general concept of the nature, importance, distribution and utilization of horticultural crops and a general understanding of the principles underlying the production of fruits, ornamentals and vegetables.
Mr. Gardner

HORTICULTURE

HRT 301 PLANT PROPAGATION

3 (2-2) f s

Prerequisite: BO 101

A study of principles, methods and practices in seedage, cuttage, division, budding, grafting and other methods of plant propagation.

Mr. Randall

HRT 311 NURSERY PRACTICE

3 (2-2) f

Prerequisite: BO 101

The principles and practice involved in the production, management and marketing of nursery plants.

Mr. Gartner

HRT 321* GRADING, PACKING AND INSPECTION OF FRUITS AND VEGETABLES

3 (2-3) f

Prerequisite: BO 101

A detailed study of U.S. grades and standards for the principal fruit and vegetable crops. Practice in grading, packing, and variety identification. A course designed to prepare the student for work in the Federal-State inspection service. Field trips are required.

Staff

HRT 331** FLORAL DESIGN AND SHOP MANAGEMENT

3 (1-5) f

Principles and practices of flower shop management including the art of floral design.

Mr. Randall

HRT 342 LANDSCAPE GARDENING

3 (2-3) s

The application of principles of design to landscaping the home grounds. The identification, propagation, use, and maintenance of ornamental plants and lawn grasses in improving the home grounds.

Mr. Gartner

HRT 412 OUTDOOR PRODUCTION OF FLORAL CROPS

3 (2-3) s

Prerequisites: BO 102, SOI 200 (or concurrently)

Principles, methods, and practices in commercial production of floral crops out-of-doors.

Mr. Randall

HRT 421 FRUIT PRODUCTION

3 (2-3) f

Prerequisites: BO 102, SOI 200 (or concurrently)

Methods of production of the principal tree and small fruits. This is designed to give an understanding of the practices involved in fruit production.

Mr. Schneider

HRT 432 VEGETABLE PRODUCTION

3 (2-3) f s

Prerequisites: BO 102, SOI 200 (or concurrently)

Soil preparation, seedage, plant production, fertilization, irrigation, pest control and general culture of vegetable crops.

Mr. Cochran

HRT 441 COMMERCIAL FLORICULTURE

3 (2-2) f

Prerequisites: BO 102, SOI 200 (or concurrently)

Greenhouse construction, heating and management.

Mr. Randall

HRT 442 COMMERCIAL FLORICULTURE

3 (2-2) s

Prerequisite: HRT 441

Botanical characters, importance, propagation, culture and preparation for market of the floral crops commonly grown in the greenhouse.

Mr. Gartner

HRT 452 PRINCIPLES OF FRUIT AND VEGETABLE PROCESSING

3 (2-2) s

Prerequisite: BO 102

Principles and methods involved in the preservation of fruits and vegetables, with emphasis placed on canning and freezing.

Mr. Jones

HRT 462 GRADING AND INSPECTION OF PROCESSED FRUITS AND VEGETABLES

2 (1-2) s

Prerequisite: Registration by permission of the instructor

Methods of inspection, grading and critical appraisal for quality of the principal fruit and vegetable products.

Mr. Jones

* Offered 1956-57 and in alternate years.

** Offered 1957-58 and in alternate years.

HORTICULTURE

HRT 481 BREEDING OF HORTICULTURAL PLANTS

3 (2-2) f

Prerequisite: GN 411

The application of genetics and plant breeding to the improvement of horticultural crops.

Mr. Barham

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

HRT 501 HORTICULTURE PROBLEMS

Credits by Arrangement

Prerequisite: Permission of instructor

Investigation of a problem in horticulture, each student selecting a problem and conducting the investigation under the direction of the instructor. The problem may last one or two semesters. Credits will be determined by the nature of the problem, not to exceed a total of 4 hours.

Staff

HRT 512* HANDLING AND STORAGE OF ORNAMENTAL PLANTS

3 (2-2) s

Prerequisite: BO 421

A study of the handling and storage of ornamental plants and plant parts. Consideration will be given to the chemical and physiological changes occurring in storage, storage facilities, materials and methods for handling and storing these products.

Mr. Gartner

HRT 521, 522 TECHNOLOGY OF FRUIT AND VEGETABLE PRODUCTS

3 (2-2) f s

Prerequisite: BO 412 (or concurrently)

Comprehensive treatment of principles and methods of preservation of fruits and vegetables, including small scale plant operation and commercial processing plant visits.

HRT 532** ADVANCED FRUIT PRODUCTION

4 (3-3) s

Prerequisites: HRT 421, BO 421 (or concurrently)

A comprehensive study of principles involved in production of tree and small fruits.

Mr. Schneider

HRT 541 PLANT BREEDING METHODS

3 (3-0) f

Prerequisites: GN 512; ST 511 Recommended

An advanced study of methods of plant breeding as related to principles and concepts of inheritance.

Messrs. Haynes & Mann

HRT 542 PLANT BREEDING FIELD PROCEDURES

2 (0-4) s

Prerequisites: HRT 541, or FC 541 or GN 541.

Laboratory and field study of the application of various plant breeding techniques and methods used in the improvement of economic plants.

Messrs. Haynes & Mann

HRT 562** HANDLING AND STORAGE OF FRUITS AND VEGETABLES

3 (2-2) s

Prerequisite: BO 421

The chemical and physiological changes occurring during handling and storage of fruits and vegetables. Consideration will also be given to facilities for handling and storage.

Mr. McCombs

HRT 571* ADVANCED VEGETABLE CROPS

3 (3-0) f

Prerequisites: BO 421 (or concurrently) and consent of instructor

A study of the origin, distribution, botanical relationships, and basic principles of production of the major vegetable crops.

Mr. Cochran

HRT 581 SENIOR SEMINAR

1 (1-0) f s

Prerequisite: Senior in Horticulture

Presentation of scientific articles, progress reports in research, and special problems in horticulture and related fields.

Mr. Gardner

COURSES FOR GRADUATES ONLY

HRT 601 ADVANCED OLERICULTURE

3 (3-0) f

Prerequisite: Graduate standing in Horticulture or related field

A study of a specific technical problem, involving original investigation, including a survey of pertinent literature, or an exhaustive study of literature on a given subject or plant.

Mr. Cochran

* Offered 1956-57 and in alternate years.

** Offered 1957-58 and in alternate years.

HORTICULTURE

HRT 602 ADVANCED ORNAMENTAL HORTICULTURE 3 (3-0) s

Prerequisite: Graduate standing in Horticulture or related field

A study of specific problems in ornamental crops, either through a review of pertinent literature or by an original investigation.

Mr. Gartner

HRT 612 ADVANCED FRUIT AND VEGETABLE PROCESSING 3 (3-0) s

Prerequisite: HRT 522 or consent of instructor

Critical study of certain processing methods as applied to fruit and vegetable preservation.

Mr. Jones

HRT 621* METHODS AND EVALUATION OF HORTICULTURAL RESEARCH 3 (3-0) f

Prerequisite: Graduate standing in Horticulture

Methods and techniques in the field of horticulture and their application in the solution of current problems. Critical evaluation of published papers reporting results of horticultural experiments. Methods of compiling data and presenting results.

Mr. Morrow

HRT 632 ADVANCED POMOLOGY 3 (3-0) s

Prerequisite: HRT 532 or consent of instructor

A critical study of specific problems in fruit crops including current literature.

Mr. Schneider

HRT 641 RESEARCH Credits by Arrangement

Prerequisite: Graduate standing in Horticulture

Original research on specific problems in fruit, vegetable, or ornamental crops, or in fruit and vegetable processing. Thesis prepared should be worthy of publication.

A maximum of six credits is allowed toward the Master of Science degree; no limitation on credits in Doctorate program.

Staff

HRT 651 SEMINAR 1 (1-0) f s

Prerequisite: Graduate standing in Horticulture

Presentation of scientific articles, progress reports in research, and special problems in Horticulture and related fields. Presentation of one or more papers each semester is required.

Mr. Cochran

— — — — — INDUSTRIAL AND RURAL RECREATION

COURSES FOR UNDERGRADUATES

REC 152 INTRODUCTION TO RECREATION 3 (2-2) f s

This course is designed to provide instruction in the following areas: History and foundations of recreation including objectives, economic and social aspects, definition, and importance; status of organized recreation in our modern society; certain applied principles of recreation; recreation leadership; activities and program planning; and tournament planning and administration. The course is of lecture-laboratory technique.

Mr. Stott

REC 153 AQUATIC SPORTS 2 (0-4) f s

A laboratory course includes the history of the techniques and methods of teaching swimming, modern methods of teaching, diving, officiating, games, pageants, the use of small craft, life-saving techniques, principles of water safety, the organization and administration of water safety programs, and the maintenance of the swimming pool and water front.

Staff

REC 201 PLAYGROUND LEADERSHIP 2 (1-3) f s

This course is designed to present to the student play activities of an active, semi-active, and quiet nature so that a selection can be made to fit a playground situation. Special emphasis is placed on the learning of how organized games, contests, relays, and water activities and their practical application in an actual playground program. Stress is placed on the principles, techniques and rules of effective playground leadership.

Mr. Miller

* Offered 1956-57 and in alternate years.

** Offered 1957-58 and in alternate years.

RECREATION

REC 203 INDIVIDUAL CORRECTIVE PHYSICAL EDUCATION

2 (2-0) f

The problems underlying the need for an individual physical education program for handicapped students are discussed. The primary emphasis will be on the organization and administration of the individual physical education program in schools and colleges; the formulation of individual programs of physical education for the most prevalent types of disabilities found in the school population and the techniques necessary for effective accomplishment of the objectives of the program.

Mr. Crawford

REC 204 METHODS AND MATERIALS IN HEALTH EDUCATION

2 (2-0) s

A consideration of the most appropriate content and methods which should be in high school health education programs. Sources of materials are stressed. Public relations are studied.

Mr. Miller

REC 205 METHODS AND MATERIALS IN PHYSICAL EDUCATION

2 (2-0) f

Presents critical studies of methods of instruction and procedures in supervision applicable to physical education. Provides observation in the required physical-activity-service courses.

Mr. Hines

REC 207 HISTORY AND PRINCIPLES OF PARK ADMINISTRATION

2 (2-0) f s

This course includes the study of the history, present status, and the basic principles of operation of parks and park systems in America.

Mr. Stott

REC 251 SOCIAL RECREATION I

3 (0-6) f s

This course presents material and information needed for conducting social play in the home, church, club, camp, on the playground, and in the recreation center. It emphasizes the place of the leader in recreation music and drama. Stress is placed on the acquiring of technical knowledge of social activities, including rhythmic and square dancing, and the conducting of specific types of activities.

Mr. Crawford

REC 252 SOCIAL RECREATION II

3 (0-6) f s

Prerequisite: REC 251

A laboratory course is designed to develop leadership skills in recreation dramatics and music. Dramatic areas to be considered are: acting, children theatres, choral speaking, creative drama, play production, puppetry, story telling, and stage design and equipment. Activities in recreation music will include: singing, playing, rhythmic movement, song creation, and combined activities. Outside studies and assigned readings with reports are required.

Mr. Crawford and visiting instructors

REC 253 PRINCIPLES OF PHYSICAL EDUCATION

3 (2-2) f s

This course is designed to give the student a professional orientation in physical education and the place of physical education activities in allied and related fields. It introduces the student to the program of physical education—its interpretation in the light of present day needs, its sociological basis, aims and objectives, and a sampling of program activities. In the laboratory period stress is placed on the learning of skills and coaching techniques involved in executing and directing the simplest to the most complex type of activities performed on mats and gymnasium apparatus.

Mr. Miller

REC 301 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION

2 (2-0) f s

This course is designed to prepare students to meet the problems of organization and administration of physical education with the view in mind of making suitable adaptation to various related fields. It presents the solution to many of the problems facing the administrator and teacher in organizing and administering a physical education program with analogous comparisons of these problems to other areas in the field of recreation. The course is intended as a practical approach and a background for the student going into the physical activity field where problems of organization and administration assume major proportions in this area of work.

Mr. Miller

REC 315 PREVENTION AND CARE OF ATHLETIC INJURIES

2 (2-0) f s

Prerequisites: ZO 213 or its equivalent

This course is designed for students in residence and for individuals in-service. Directors of community centers, boys clubs, coaches of athletic teams, athletic directors, and others are confronted constantly with: the prevention and the care of athletic injuries. The course is of lecture-laboratory technique.

Mr. Crawford

RECREATION

REC 325 ACTIVITIES FOR THE HANDICAPPED INDIVIDUAL

2 (2-0) f s

This course provides students with methods that will motivate the typical individual to improve not only his physical condition but also his outlook on life. To utilize modern educational principles and sport activities which will satisfy the handicapped individual's needs, interest, and capacity. To provide sources of information applicable to the problem. Outside studies and assigned readings with reports are required.

Mr. Crawford

REC 331 SCHOOL CAMPING

2 (1-2) f s

This course covers the history of school camping and outdoor education. The purpose of this course is to provide the student with the methods and techniques in planning the school camp program so as to furnish a laboratory experience in those areas of study that can best be learned in the out-of-doors. Practical consideration will be given to the preplanning of school camping experiences.

Mr. Stott

REC 333 FIRST AID AND SAFETY

2 (1-2) f s

This course stresses first aid and safety education in relation to the home, school, and community. It strongly emphasizes safety principles as applied to activities of the gymnasium, playgrounds, and athletic fields. Laboratory will provide practice in first aid skill.

Mr. Stott

REC 351 INDIVIDUAL SPORTS IN RECREATION

3 (0-6) f s

Prerequisites: Completion of Physical Education requirements or equivalent

The course provides for group instruction and laboratory experiences in the following sports: archery, bowling, golf, handball, tennis, table tennis, bait and fly casting, badminton and squash. Problems involved in starting and conducting a program of individual sports organized on a mass basis and designed to serve the interest of all people are studied. Officiating techniques applicable to individual sports are utilized. The course is of laboratory character and study of the professional problems involved with assigned readings and reports is required.

Mr. Crawford

REC 352 TEAM SPORTS IN RECREATION

3 (0-6) f s

Prerequisites: Completion of Physical Education requirement or equivalent

The course provides for group instruction and laboratory experiences in the following games: football, basketball, baseball, volleyball, and speedball. Problems involved in starting and conducting a program of group games organized on a mass basis designed to serve the interests of all people are studied. Officiating techniques applicable to the various games are utilized. The course is of laboratory character, and study of the professional problems involved with assigned readings and reports is required.

Mr. Crawford

REC 353 CAMP ORGANIZATION AND LEADERSHIP

3 (2-2) f s

This course surveys the development of organized camping and the educational, health, and recreational objectives of camping. Program planning and leadership training in community, private, agency and school camping is emphasized. Laboratory will provide practice in campcraft skills.

Mr. Stott

REC 354 PERSONAL AND COMMUNITY HYGIENE

3 (3-0) f s

This course presents the essential present-day knowledge of personal and community health. Emphasis is placed upon health problems, disease prevention, communicable diseases and their control, public health administration, school and industrial hygiene, and various other health problems confronting the individual and the community. The course presents valuable and interesting health information to college men and women in order that they might live more intelligently in terms of newer health concepts and also to be better prepared to assume their responsibilities as citizens of their respective communities.

Mr. Miller

COURSES FOR ADVANCED UNDERGRADUATES

REC 401 PRINCIPLES AND PRACTICES OF INDUSTRIAL RECREATION

2 (2-0) s

A study of existing programs of industrial recreation, their operation, methods of finance, scope, and problems is emphasized. Relationship of industrial recreation to other programs of recreation is studied.

Mr. Hines

REC 404 PRINCIPLES AND PRACTICES OF RURAL RECREATION

2 (2-0) s

A study of the organization and administration of rural recreation programs and facilities. Emphasis on planning programs of recreational activities for the rural community, the county-wide program, clubs, and organizations. Study of existing programs of rural recreation, their operation, and their problems will receive major attention.

Mr. Hines

RECREATION

REC 411 PARK MAINTENANCE AND OPERATION I

2 (1-2) f s

Prerequisite: Senior status

This course deals with: methods of operation of various park facilities for public use; interpretative and public use programs; information and education; park personnel administration; and protection and law enforcement.

Mr. Stott

REC 412 PARK MAINTENANCE AND OPERATION II

2 (1-2) f s

Prerequisite: REC 411

This course will begin with a one-week tour of various types of parks and park systems. The following subjects would then be studied in detail: preventive maintenance, job planning and scheduling, modern maintenance techniques and maintenance materials.

Mr. Stott

REC 431 CAMPCRAFT

2 (0-4) f s

Prerequisite: REC 353 or equivalent

This course is entirely of a laboratory nature. It is designed to provide the student with skills, and methods of teaching campcraft and woodcraft.

Mr. Stott

REC 451 FACILITIES AND EQUIPMENT

3 (0-6) f s

This course includes the history of park recreation facility development and trends in recreation facility planning. Emphasis is placed upon the planning principles involved in the design and layout of recreation areas and recreation buildings. Field trips will enable the student to see the various types of recreation facilities.

Mr. Stott

REC 452 RECREATION ADMINISTRATION

3 (3-0) f s

Prerequisite: Senior status

This course deals with: the internal organization of a recreation department; financing; accounting and financial procedure; budget making and control; records, reports, and filing; program planning and control; personnel policies and organization; and public relations.

Mr. Hines

REC 470 SUPERVISED PRACTICE

6 (0-18) f s

This course is intended to provide the prospective recreation director with an opportunity to acquire experience in the skills and techniques involved in the organization and administration of recreation activities in an established program. Each student during his senior year will spend 10 weeks off-campus in a selected location. (A minimum of 225 contact hours are required.) The student will have the opportunity to observe the activities and practices of the recreation executive, to organize and conduct activities under supervision, to observe activities and practices of experienced recreation activity leaders, and to observe the maintenance and operation of facilities. Prior to enrollment in this course, the student is expected to have completed the senior field trip consisting of visits to recognized programs of recreation throughout North Carolina. The student will have the opportunity to become familiar with the total recreation program.

Mr. Hines

REC 471 ORGANIZING THE RECREATION PROGRAM

2 (2-0) f s

Prerequisite: Senior status

This course includes the types of recreation opportunities to be made available to individuals, groups, or communities to be served and the methods of providing these opportunities. Activities to be considered are classified as: arts and crafts; dance; drama; games, sports, and athletics; hobbies; music; outdoor recreation; reading, writing, and speaking; social recreation; special events and voluntary service. The lecture-discussion technique is used. Outside studies and assigned readings with reports are required.

Mr. Hines

REC 472 OBSERVATION AND FIELD EXPERIENCE

2 (0-6) f s

Prerequisite: Senior status

This course is designed to provide the student with the opportunity to observe, appraise, and evaluate: the operation of program activities; teaching methods; administrative, supervisory, and organizational techniques; procedures and conduct of advisory and commission meetings; professional conferences and society meetings. Students will be expected to complete this entire gamut. By use of field experience, the student will be expected to prepare written reports of observations. Only those experiences approved by the recreation faculty shall be accepted.

Mr. Hines

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

REC 501 SPECIAL PROBLEMS IN RECREATION

3 (2-2) f

Prerequisites: 1. Completion of 20 hours credit in recreation courses or equivalent.
2. A "B" average in recreation courses or equivalent.

A survey of specific problems in recreation. Aims to develop critical analysis. Forms a basis for the organization of research projects, for the compilation and organization of material in a functional relationship, and for the foundation of policies. Follows the seminar procedure.

Mr. Hines

— — INDUSTRIAL ARTS AND INDUSTRIAL EDUCATION

COURSES FOR UNDERGRADUATES

IA 100 INTRODUCTION TO INDUSTRIAL ARTS

1 (1-0) f

To assist students in their orientation to college life and to acquaint them with the scope and problems of industrial arts.

Staff

IA 103, 104 INDUSTRIAL ARTS DRAWING

3 (2-4) f s

Practice in lettering, sketching and the use of instruments as applied to orthographic projection, pictorial drawings, sheet metal drawing, machine drawings, charts and graphs, and architectural drawing. Explanation sketches and practical working drawings. Materials and processes for drawing reproduction.

IA 106 LABORATORY OF INDUSTRIES

3 (2-4) f

This course is designed to orient the student to the purposes of industrial arts and to provide experiences in a variety of tools and materials used by industry, such as woods, metals, electricity, graphic arts, ceramics, textiles, and selected crafts.

Mr. Schmitt

IA 107 GENERAL WOODWORK

3 (2-4) s

This course involves project planning, use and care of common hand tools, wood finishing, characteristics and uses of common woods, types and uses of hardware and fasteners, and wood lathe turning. Experiences in some elementary wood machine with emphasis on wood lathe turning.

Mr. Troxler

IA 108 GENERAL WOODWORK

3 (2-4) f

Prerequisite: IA 107

Use of woodworking machine tools. Production and selection of projects adapted to available material and practical processes. New techniques in woodworking processes. Emphasis will be given to new tools, materials and processes in wood.

Mr. Troxler

IA 203 PRACTICAL DRAFTING

2 (1-3) s

Required of students in Wild Life and Furniture Manufacturing

The application of drawing practices for the layman. Freehand sketching and instrument drawings, lettering, pictorial representation, production sketches, template drawing, exploded views, shades and shadows. Individual problems and selected graphic representation.

Mr. Troxler

IA 205 INDUSTRIAL ARTS DESIGN

2 (2-2) s

Prerequisites: IA 103, 104

Design and construction in a variety of industrial materials, stressing individual expression and appreciation of well designed industrial materials.

Mr. Troxler

IA 206 GENERAL METALWORK

3 (2-4) f

Basic operations and processes in bench metal, foundry, arc and acetylene welding, metal lathe and art metalwork, a study of metals including their properties and uses.

Mr. Schmitt

IA 207 GENERAL METALWORK

3 (2-4) s

Basic operations and processes in sheet metal, forging, lathe work, milling machine, shaper work, precision grinding, and a study of the mass production techniques.

Mr. Schmitt

IA 215 SHEET METAL

1 (1-2) f

Prerequisite: ME 102

A course designed to give students in the Heating and Air Conditioning curriculum of the Mechanical Engineering Department practical experience in sheet metal process, tools, operations, machines, and materials pertaining to duct work.

Mr. Troxler

INDUSTRIAL ARTS

IA 230 HOME MECHANICS

2 (1-3) f s

A course designed to provide information and experiences in tools, materials, and processes essential in the care, maintenance, and the repair of a home and home equipment. Emphasis will be placed on the development of "handy man" abilities.

Staff

IA 306 GRAPHIC ARTS

3 (2-4) f

To provide the student experience in the basic operations and processes and to provide related information in letterpress printing, block printing, silk screen printing, book binding, offset printing, and photography.

Mr. Schmitt

IA 307 GENERAL ELECTRICITY

3 (2-4) f

The fundamentals of electricity as applied to magnetism, electromagnetism, heat and power will be emphasized. Repair of common household appliances and the construction of well made electrical projects are required.

Mr. Schmitt

IA 308 INDUSTRIAL ARTS ELECTRONICS

3 (2-4) s

This course includes the fundamentals of electricity as applied to electronics. Emphasis in the course is placed on a study of the various applications of the vacuum tubes, especially radio communications along with a study of semi-conductors.

Mr. Schmitt

IA 314 RECREATION ARTS AND CRAFTS

2 (1-3) s

Required of juniors in Industrial and Rural Recreation; elective for others

A course designed to give students interested in recreational work an understanding of and experiences in different types of arts and crafts. Emphasis will be given to a wide variety of crafts as adaptable to camps, city, industrial and institutional programs.

Mr. Troxler

IA 315 GENERAL CERAMICS

3 (2-4) f s

This course is designed to give the student an opportunity to work with ceramic materials as a medium of expression and to get experience in the basic manufacturing processes of the ceramic industry. Emphasis will be given to a study of the sources of clay, designing, forming, decorating, and firing of ceramic products.

Mr. Hostetler

IA 320 TOOLS AND MATERIALS

2 (1-4) f

A study of the care and maintenance of hand and machine tools and of the sources, manufacture, characteristics, uses, and costs of industrial materials and products.

Mr. Schmitt

IA 321 METALWORK TECHNOLOGY

2 (1-3) f s

Prerequisites: IA 206, 207 or equivalent

This course is designed to give the student additional theory and skills in metalworking operations and processes. Emphasis will be on the metal lathe, metal shaper, and milling machine.

Mr. Schmitt

ED 100 INTRODUCTION TO INDUSTRIAL EDUCATION

2 (2-0) f

The place of vocational education in a program of public education and the fundamental principles upon which this work is based.

ED 345 FIELD WORK IN SECONDARY EDUCATION

2 (2-0) s

Prerequisites: ED 300 and permission of instructor

A study of pupil-teacher-community relationship at the secondary school level involving observations, visits, reports, readings and conferences.

Mr. Hostetler

ED 422 METHODS OF TEACHING INDUSTRIAL SUBJECTS

3 (3-0) s

Prerequisites: ED 344, PSY 304

A study of effective methods and techniques of teaching industrial subjects. Emphasis is given to class organization; student-teacher planning; methods of teaching manipulative skills and related information; lesson planning; shop safety; and evaluation.

Mr. Hostetler

ED 440 VOCATIONAL EDUCATION

2 (2-0) f

Prerequisites: ED 344, PSY 304

A comprehensive study of the types of vocational education of less than college grade, provided for through Federal legislation; an evaluation of the effectiveness of the program; and a detailed study of the North Carolina Plan.

Mr. Bryant

INDUSTRIAL ARTS

ED 444 STUDENT TEACHING IN INDUSTRIAL SUBJECTS

6 (2-15) f

Prerequisites: ED 345, ED 422

Students in the Industrial Arts and Industrial Education curricula will devote ten weeks during the fall semester to full time, off-campus student teaching in selected public schools throughout the State. They will be assigned to their teaching center in the preceding spring and will report to their supervising teachers when the public schools (to which they are assigned) open in the fall. During the remainder of the term, additional courses will be taken in concentrated form.

Staff

IA 460 GENERAL SHOP

3 (2-4) s

Prerequisite: ED 444 or permission of instructor

A course designed to give the student the opportunity to strengthen weaknesses both in skills and teaching methods which became apparent during his term of student teaching. Emphasis will be given to the organization, administration, content and methods of the general shop. Opportunity will also be given to develop good general shop project ideas.

Mr. Hostetler

ED 482 CURRICULUM PROBLEMS IN INDUSTRIAL ARTS

2 (1-2) f

Prerequisites: PSY 304 or six credits in Education

Approximately one-third of the course is directed to developing a working philosophy of industrial arts and the major portion of the course is devoted to planning and organizing learning units in industrial arts.

Mr. Schmitt

ED 483 INSTRUCTIONAL AIDS AND DEVICES

2 (1-2) f

Prerequisites: PSY 304 or six credits in Education

Analysis of learning units and the preparation of instructional aids and devices.

Mr. Hostetler

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ED 516 COMMUNITY OCCUPATIONAL SURVEYS

2 (2-0) s

Prerequisites: Six credits in Education and consent of instructor

Methods in organizing and conducting local surveys and evaluation of findings in planning a program of vocational education.

Graduate Staff

ED 521 ORGANIZATION OF RELATED STUDY MATERIALS

2 (2-0) f s

Prerequisite: ED 422 or consent of instructor

The principles of selecting and organizing both technical and general related instructional material for trade extension and diversified occupations classes.

Graduate Staff

ED 525 TRADE ANALYSIS AND COURSE CONSTRUCTION

2 (2-0) f

Prerequisites: ED 344, PSY 304

Principles and practices in analyzing occupations for the purpose of determining teaching content. Practice in the principles underlying industrial course organization based on occupational analysis covering instruction in skills and technology and including course outlines, job sequences, the development of industrial materials and instructional schedules.

Graduate Staff

ED 527 PHILOSOPHY OF INDUSTRIAL EDUCATION

2 (2-0) s

Prerequisites: ED 344, PSY 304

A presentation of the historical development of industrial education, the philosophy of vocational education; study of Federal and State legislation pertaining to vocational education; types of programs, trends and problems.

Graduate Staff

ED 528 PRINCIPLES AND PRACTICES IN DIVERSIFIED OCCUPATIONS

2 (2-0) f s

Prerequisite: ED 422 or consent of instructor

A study of the development, the objectives, and principles of diversified occupations. The organization, promotion and management of programs in this area of vocational education.

Graduate Staff

ED 552 INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL

3 (2-4) f s

See description on page 204

INDUSTRIAL ARTS

IA 570 LABORATORY PROBLEMS IN INDUSTRIAL ARTS

**A maximum of
6 credits**

Prerequisites: Senior standing and permission of instructor

Courses based on individual problems and designed to give advanced majors in industrial arts education the opportunity to broaden or intensify their knowledge and abilities through investigation and research in the various fields of industrial arts, such as metals, plastics, or ceramics.

IA 575 SPECIAL PROBLEMS IN INDUSTRIAL ARTS

**A maximum of
6 credits**

Prerequisite: One term of student teaching or equivalent

The purpose of these courses is to broaden the subject matter experiences in the areas of industrial arts. Problems involving experimentation, investigation and research in one or more industrial arts areas will be required.

Graduate Staff

IA 580 MODERN INDUSTRIES

2 (2-0) s

Prerequisites: Twelve credits in Industrial Arts and consent of the instructor

Elective course for advanced undergraduate and graduate students in industrial arts. Designed to assist teachers in guiding students to sources of information relative to various modern industries.

Mr. Hostetler

IA 584 SCHOOL SHOP PLANNING AND EQUIPMENT SELECTION

3 (3-0) s

A course for advanced undergraduate and graduate students

The physical planning of school shops and laboratories; selection of tools and equipment. Whenever possible, actual or contemplated school buildings will be used for class work.

Mr. Hostetler

ED 592 INDIVIDUAL PROBLEMS IN EDUCATION

2 or 3 (0-2 or 3) f s

An elective course for graduate students in Industrial Arts Education and Industrial Education, with consent of instructor

Individual and group studies of one or more major problems in industrial arts and industrial education. Problems will be approached through the application of research techniques with final reports prepared in a form suitable for publication as a magazine article, technical or professional bulletin.

Mr. Hostetler

ED 595 INDUSTRIAL ARTS WORKSHOP

3 (3-0) summer

Prerequisite: One or more years of teaching experience

A course for experienced teachers, administrators and supervisors of industrial arts. The primary purpose will be to develop sound principles and practices for initiating, conducting and evaluating programs in this field. Enrollees will pool their knowledge and practical experiences and will do intensive research work on individual and group problems. (Offered in Summer School Only)

Mr. Hostetler

COURSES FOR GRADUATES ONLY

ED 610 ADMINISTRATION AND SUPERVISION OF VOCATIONAL EDUCATION

2 (2-0) f s

Prerequisites: PSY 304, ED 344, 440, 520, or equivalent

Administrative and supervisory problems of vocational education; practices and policies of Federal and State offices; organization and administration of city and consolidated systems.

Graduate Staff

ED 614 MODERN PRINCIPLES AND PRACTICES IN SECONDARY EDUCATION

2 (2-0) f s

Foundations of modern programs of secondary education; purposes, curriculum, organizing, administration, and the place and importance of the high school in the community in relation to contemporary social force.

Graduate Staff

ED 619 SEMINAR IN INDUSTRIAL ARTS EDUCATION

A maximum of 2 credits

Reviews and reports on special topics of interest to students in industrial arts education.

Mr. Hostetler

ED 624 RESEARCH IN INDUSTRIAL ARTS EDUCATION

A maximum of 6 credits

Prerequisites: Eighteen credits in Education and permission of instructor

The student will be guided in the selection of one or more research problems and in the organization of the problems, methods of gathering data, procedure for analyzing data, and best practice for interpreting and reporting data.

Mr. Hostetler

ED 627 RESEARCH IN INDUSTRIAL EDUCATION

A maximum of 6 credits

Prerequisites: Eighteen credits in Education and permission of instructor

The student will be guided in the selection of one or more research problems and in the organization of the problems, methods of gathering data, procedure for analyzing data, and best practice for interpreting and reporting data.

Graduate Staff

ED 630 PHILOSOPHY OF INDUSTRIAL ARTS

2 (2-0) f s

Required of all graduate students in Industrial Arts Education

Current and historical developments in industrial arts; philosophical concepts, functions, scope, criteria for the selection and evaluation of learning experiences, laboratory organization, student personnel programs, community relationships, teacher qualifications, and problems confronting the industrial arts profession.

Mr. Hostetler

ED 635 ADMINISTRATION AND SUPERVISION OF INDUSTRIAL ARTS

2 (2-0) f s

A study of the problems and techniques of administration and supervision in the improvement of industrial arts in the public schools. Selection of teachers and their improvement in service and methods of evaluating industrial arts programs.

Mr. Hostetler

INDUSTRIAL ENGINEERING

IE 206 INDUSTRIAL ORGANIZATION AND MANAGEMENT

3 (3-0) f s

Prerequisite: Sophomore standing

An introduction to the organizational, production and supervision problems of modern management. Includes basic principles and techniques for the solution of industrial problems in Internal Organization, Production Control, Cost Control, Wage Administration, Materials Control and other managerial functions.

IE 217 MACHINE TOOLS

1 (0-2) f s

Prerequisite: Sophomore standing

One session two hours each week consisting of lecture, demonstrations and student projects. Dimensional control, press forming, power cutting of metals including turning, milling, shaping, and finishing. Selection and use of cutting tools, speeds and feeds.

IE 218 METAL FORMING

1 (0-2) f s

Prerequisite: Sophomore standing

One session two hours each week consisting of lecture, demonstrations and student projects. Survey of pattern making, foundry, die casting, non-ferrous casting, welding, flame cutting, heat treating.

IE 224 WOOD WORKING EQUIPMENT

3 (2-3) s

Classwork covers the description of cutting, sanding and assembly equipment and an explanation of the type of operation done by each kind of equipment. The theory of cutting and sanding and cutterhead and saw design are covered. Laboratory work consists of setting up, operating and maintaining typical furniture production equipment supplemented by visits to furniture plants.

IE 241 ADVANCED WELDING LABORATORY

1 (0-3) f s

Prerequisite: IE 116 or permission of instructor

A study of mechanization as applied to oxygen cutting, to the various types of shielded metal arcs and to gas welding. Jigs, fixtures and positioners. Selection of welding process. Joint design and welding costs. Welds and stress distribution.

IE 269 WELDING AND PIPE SHOPWORK

1 (0-3) s

Required of sophomores in Heating and Air Conditioning

Fundamentals of welding, both arc and gas, cutting equipment safety in the use of equipment application of low temperature and non-ferrous alloys; cutting, threading, reaming and erection of iron pipe; copper tubes and fittings in heating and air conditioning work.

IE 301 ENGINEERING ECONOMY

2 (2-0) f s

Prerequisite: Junior standing

A study of the alternatives involved in engineering problems. Development of analytical methods for evaluating the worth of engineering alternatives in relation to the cost of the service provided. Handling of depreciation expense. Overhead, sunk, fixed and increment costs involved in engineering alternatives. Problems of equipment replacement.

IE 310 INDUSTRIAL SAFETY

2 (2-0) f s

A course in the causes and prevention of industrial accidents.

IE 312 MOTION AND TIME STUDY

3 (3-0) f s

Prerequisite: Junior standing

A course designed for non-industrial engineering students. Principles and techniques of motion and time study. Types and uses of predetermined time systems; stopwatch time study; principles and methods of rating; application of allowances and standard data.

INDUSTRIAL ENGINEERING

IE 322 FURNITURE DESIGN AND CONSTRUCTION

2 (0-6) f

An introduction to furniture drawing and construction. Furniture styles and periods are briefly covered by lectures and illustrations. Original detail drawings are made by the students from artists' sketches and general specifications. From these, students are required to make up complete bills of materials.

IE 326 FURNITURE MANUFACTURE AND PROCESSING

3 (2-3) s

Prerequisite: IE 224

A study of the production methods of the Furniture Industry. Class work includes the production procedures from the yard through the machine, cabinet, finishing, upholstery, and shipping departments. The laboratory period is supplemented by visits to furniture plants. Particular attention is paid to production rates by departments, based on number of men and supervisors, the quality of product produced and equipment used.

IE 327 FURNITURE MARKETING

2 (2-0) s

Study of basic factors bearing on selection of ideal location, equipment and organization to serve a specific market with a specific furniture product, and selection of ideal market and product for a specific factory. In addition to lectures, each student will select one project for which he will work out a solution for correlating product and market.

IE 328 MANUFACTURING PROCESSES

3 (2-3) f

Prerequisites: IE 217, 218

The basic processes of conversion of raw materials into producer and consumer goods. The cost reduction aspects of machine tools, jigs and fixtures in volume production. Study of industrial trends to meet needs of an expanding economy. Selected problems illustrating a wide variety of manufacturing situations.

IE 332 MOTION AND TIME STUDY

4 (3-3) f s

Prerequisite: Junior standing; corequisite: IE 206 or EC 425

Principles and techniques of motion and time study; detailed study of charting operator movements; micromotion study. Predetermined time data and its applications; stopwatch time study with emphasis on rating, allowances and standard data theory and practice.

IE 334 MOTION AND TIME STUDY

3 (0-3) f

A course designed for non-industrial engineering students. Principles and techniques of motion and time study. Types and uses of predetermined time systems; stopwatch time study, principles and methods of rating, application of allowances and standard data.

IE 341 FURNITURE PLANT LAYOUT AND DESIGN

3 (2-3) f

Prerequisite: IE 326

Problems in industrial plant design with special reference to furniture manufacture; building structures, equipment location, space utilization, layout for operation and control; allied topics in power utilization, light, heat, ventilation, and safety. Laboratory period.

IE 343 PLANT LAYOUT AND MATERIALS HANDLING

4 (3-3) s

Prerequisites: IE 328 IE 332

Problems in plant arrangement and layout to obtain most effective utilization of men, materials, and machines as related to space and costs. Includes consideration of heat, light, ventilation, organization, control, material flow and handling, working conditions, safety and other factors as they affect the most satisfactory layout of the plant.

IE 346 FURNITURE DESIGN AND CONSTRUCTION II

2 (2-0) f

Prerequisite: IE 326

Lecture and laboratory work on the design and construction of modern and period furniture. The course emphasizes construction features that are economical of labor and materials and are adaptable to mass production. Students are required to complete an original design and detailed drawing of a piece of furniture as one requirement of the course.

IE 408 PRODUCTION CONTROL

3 (2-3) f

Prerequisite: Senior Standing

Planning scheduling and dispatching of production in manufacturing operations; conversion of sales requirements into production orders; construction of production budgets and their relation to labor, materials and machines; laboratory project involving the development and operation of the production control system of a typical plant.

IE 425 SALES AND DISTRIBUTION METHODS

2 (2-0) s

An analysis of the distribution of industrial and consumer products; the effect of increased productivity on sales and distribution channels; development and marketing of new products; merchandising and packaging. Sales training and sales engineering programs.

INDUSTRIAL ENGINEERING

IE 430 JOB EVALUATION AND WAGE ADMINISTRATION

3 (2-3) s

Prerequisite: Senior Standing

Job analysis, classification and specification. Grading, ranking, factor comparison and point systems of job evaluation in determining equitable rates for job content. Wage surveys and merit rating. Utilization of time standards in design, installation and operation of financial incentive plans. Comparison of various wage and salary plans. Effect of wage payment methods on industrial relations practices.

IE 443 QUALITY CONTROL

3 (2-2) f

Prerequisite: ST 361

Economic balance between cost of quality and value of quality, and techniques for accomplishing this balance. Organization for, specification and utilization of quality controls. Statistical theory and analyses as applied to sampling, control charts, tolerance determination, acceptance procedures and control of production.

IE 451, 452 SEMINAR

1 (1-0) f s

A weekly meeting of senior students to assist the transition from a college environment to that of industry. Lectures, problems, presentation of papers and outside speakers. Employment practices and procedures useful in job finding.

IE 515 PROCESS ENGINEERING

3 (3-0)

Prerequisite: IE 408

The technical process of translating product design into a manufacturing program. The application of industrial engineering in the layout, tooling, methods, standards, costs and control functions of manufacturing. Laboratory problems covering producer and consumer products.

IE 517 PRINCIPLES OF AUTOMATIC PROCESSES

3 (3-0) s

Prerequisites: IE 443, 408

Principles and methods for automatic processing. The design of product, process, and controls. Economic, physical, and sociological effects of automation.

IE 519 DISTRIBUTION ENGINEERING

3 (3-0)

Prerequisite: IE 408

The application of the Industrial Engineering principles and techniques of time study, methods analysis, materials handling, standards and controls to the field of distribution. Collection, analysis, and interpretation of data and case studies in the retailing, wholesaling, transportation, warehousing and service fields.

IE 521 CONTROL SYSTEMS AND DATA PROCESSING

3 (3-0) f

Prerequisites: IE 443, 408

This course is designed to train the student in the problems and techniques required for systematic control of the production process and the business enterprise. This includes training in the determination of control factors; the collection and recording of data; and the processing, evaluation and use of data. The course will illustrate the applications and use of data processing equipment and information machines in industrial processes. The course will train the student in the design of systems to facilitate the above requirements with most effective utilization of time, money, and space. Case problems will be used extensively.

IE 543 STANDARD DATA

3 (3-0) f

Prerequisite: IE 430

Theory and practice in developing standard data from stopwatch observations and predetermined time data; methods of calculating standards from data; application of standard data in cost control, production planning and scheduling, and wage incentives.

IE 551 STANDARD COSTS FOR MANUFACTURING

3 (3-0) s

Prerequisites: EC 401; IE 430

The development, application and uses of standard costs as a management tool, use of industrial engineering techniques in establishing standard costs for labor, material and overhead. Analysis of variances and setting of budgets. Measures of management performance.

IE 581, 582 PROJECT WORK

2 (0-6) f s

Investigation and report on an assigned problem for students enrolled in the fifth-year curriculum in Industrial Engineering.

IE 635 PLANNING FOR PRODUCTION

3 (3-0)

Prerequisite: IE 408

A study of the factors to be considered in developing an effective and realistic plan of production for a manufacturing company, analyses of sales demands, market trends and business conditions. Construction of long range production schedules and finished good inventory controls, planning for material purchasing, equipment acquisition and labor requirements; economic and cost factors of inventory turnover rates.

LANDSCAPE ARCHITECTURE

IE 651, 652 SPECIAL STUDIES IN INDUSTRIAL ENGINEERING 1 to 3 credits f s

The purpose of this course is to allow individual student or small groups of students to take on studies of special areas in Industrial Engineering which fit into their particular program and which may not be covered by existing industrial engineering graduate level courses. The work would be directed by a qualified staff member who had particular interest in the area covered by the problem. Such problems may require individual research and initiative in the application of industrial engineering training to new areas or fields.

IE 671, 672 SEMINAR 1 (1-0) f s

Seminar discussion of industrial engineering problems for graduate students. Case analyses and reports.

IE 691 INDUSTRIAL ENGINEERING RESEARCH 2 to 6 f s

Graduate research in Industrial Engineering for thesis credit.

Note: IE 543, 551, 581, 582; IE 651, 652, 671, 672, 691 are offered each year; other 500 and 600 number courses are offered in alternate years.

LANDSCAPE ARCHITECTURE — — — — —

COURSES FOR UNDERGRADUATES

LA 212 LANDSCAPE CONSTRUCTION I 3 (3-3) s

The physical elements of landscape design; earth work, structures, preparation of grading and master construction plans. Design of the Horizontal and vertical alignment of roads and earth work quantity estimates.

Mr. Clarke

LA 301, 302 LANDSCAPE DESIGN I, II

Prerequisite: DN 202

Required of all third year students in Landscape Architecture
Landscape origination, investigation, and analysis as applied to design problems. Space concepts in area design.

Mr. Clarke

LA 311, 312 LANDSCAPE CONSTRUCTION AND MATERIALS I, II 4 (2-6) f s

Prerequisite: DN 202

Required of all third year students in Landscape Architecture
Landscape structures, materials, and land form, as a continuation and application of construction course in Civil Engineering (CE 101, 102).

Mr. Clarke

LA 401, 402 LANDSCAPE DESIGN III, IV 6 (0-12) f s

Prerequisite: LA 302

Required of all fourth year students in Landscape Architecture
Area design continued and related to planting and construction courses. Larger scale landscape design and site planning. Introduction to regional problems.

Mr. Clarke

LA 421, 422 PLANTING DESIGN 4 (2-6) f s

Prerequisites: HRT 202, LA 302, 312

Required of all fourth year students in Landscape Architecture
The appraisal of plants as objects of design and their orderly arrangement for landscape effect. Techniques for recording designs, specifications, and cost estimates.

Mr. Thurlow

LA 501, 502 LANDSCAPE DESIGN V, VI 8 (0-12) f 9 (0-12) s

Prerequisite: LA 402

Required of all fifth year students in Landscape Architecture
Area design continued. The rural and urban landscape.

Mr. Clarke

MATHEMATICS — — — — —

COURSES FOR UNDERGRADUATES

MA 101 FIRST YEAR MATHEMATICS FOR ENGINEERS 5 (4-2) f s

Required of freshmen in the School of Engineering
Rectangular coordinates, functions and graphs, linear equations and determinants, quadratic equations, inequalities, systems of equations involving quadratics, proportion and variation, binomial theorem, progressions, logarithms, exponential and logarithmic curves, trigonometric functions of general angle, derivation of trigonometric identities and formulas, the solution of plane triangles, with practical applications, slide rule.

MA 102 FIRST YEAR MATHEMATICS FOR ENGINEERS

4 (3-2) f s

Prerequisite: MA 101

Required of freshmen in the School of Engineering

Radian measurement of angles, trigonometric curves, inverse trigonometric functions, trigonometric equations, complex numbers, theory of equations, loci of equations, the straight line, circle, parabola, ellipse, hyperbola, the general equation of second degree, curve sketching, polar coordinates, parametric equations, curve fitting, coordinates in space, planes, lines and surfaces.

MA 111 ALGEBRA AND TRIGONOMETRY

4 (3-2) f s

Exponents and radicals, fractions, quadratic equations in one and two unknowns, radical equations, logarithms, progressions, binomial theorem, solution of higher degree equations by linear interpolation, geometric theorems and problems, the trigonometric functions, fundamental relationships, the right triangle by tables and slide rule, simple identities and equations, the oblique triangle.

MA 112 ANALYTIC GEOMETRY AND CALCULUS A

4 (3-2) f s

Prerequisite: MA 111

A unified course, beginning with elementary ideas in analytic geometry and calculus, with the introduction of additional work in trigonometry where needed, rectangular and polar coordinate systems, the fundamental locus problem, lines and conic sections, curve tracing, the derivative, with applications to geometry and simple practical problems.

MA 122 MATHEMATICS OF FINANCE AND ELEMENTARY STATISTICS

4 (3-2) f s

Prerequisite: MA 111

Simple and compound interest, annuities and their applications to amortization and sinking fund problems, installment buying, calculation of premiums of life annuities and life insurance, elementary statistics.

MA 211, 212 ANALYTIC GEOMETRY AND CALCULUS B, C.

3 (2-2) f s

A continuation of MA 112

Prerequisite: MA 112

An integrated course in the fundamentals of calculus, including formal differentiation and integration. Basic applications to geometry, rates, maxima and minima, areas, volumes, first and second moments, and centroids are included. Additional topics from analytic geometry, not covered in MA 112, are introduced as needed as a basis for calculus.

MA 201 CALCULUS I

4 (3-2) f s

Prerequisite: MA 102

Required of sophomores in the School of Engineering

A course in the fundamentals of the Calculus including the formulas for differentiation and for differentials, the integrals of polynomial functions; applications to geometry, maxima and minima, areas, volumes, moments of area, work, fluid pressure, related rates, rectilinear and curvilinear motion, Newton's Method of approximation of roots.

MA 202 CALCULUS II

4 (3-2) f s

A continuation of MA 201

Prerequisite: MA 201

Methods of integration, definite integral with applications to length of arc, surface area, volumes, centroids and moments of inertia, Simpson's rule; indeterminate forms, infinite series, expansion of functions, hyperbolic functions, partial differentiation, multiple integration.

MA 401 DIFFERENTIAL EQUATIONS

3 (3-0) f s

Prerequisite: MA 202 (One year of calculus)

Required of juniors in Electrical Engineering. Elective for others

A first course in ordinary differential equations, handling standard types, proceeding to linear equations of higher order, some operator methods, applications to geometrical, growth and solution problems, and to dynamical and electrical systems, higher degree equations of order one, special equations of order two, further special applications.

MA 402 THEORY OF EQUATIONS

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

Algebraic equations, isolation of roots, numerical approximations to roots, the Graeffe method, application of approximation procedures to transcendental equations, systems of linear equations, determinants and introduction to matrix theory.

MA 403 FUNDAMENTAL CONCEPTS OF ALGEBRA

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

An introduction to modern algebra: numbers, fields, rings, groups, vectors and vector spaces, linear transformations, matrices, algebra and classes, ideals and algebraic numbers.

MATHEMATICS

MA 404 FUNDAMENTAL CONCEPTS OF GEOMETRY

3 (3-0) s

Prerequisite: MA 202 (One year of calculus)

Laws of logic; postulates and theorems; geometries based on different postulates: projective geometry; affine geometry; geometric transformations; Euclidean geometry; non-Euclidean geometry.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

MA 501 NUMERICAL METHODS I

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

Construction of scales to represent functions including the construction of some special purpose slide rules and networks; alignment charts, theory of least squares and curve fitting, including periodic functions; Newton's interpolation formula; the error curve and some of its properties.

Staff

MA 502 NUMERICAL METHODS II

3 (3-0) s

Prerequisite: MA 401, 501

Interpolation formulas of Lagrange, Bessel, and Sterling; divided differences, subtabulation; numerical differentiation and integration; numerical methods of solving ordinary and partial differential equations.

Staff

MA 511 ADVANCED CALCULUS I

3 (3-0) f s

Prerequisite: MA 401

Continuity; Taylor's series with remainder; infinitesimals; differentials; review of convergence test for infinite series, hyperbolic functions; partial differentiation; directional derivatives; implicit functions; Jacobians; elements of differential geometry, differentiation of integrals; improper integrals. Application to problems in engineering.

Staff

MA 512 ADVANCED CALCULUS II

3 (3-0) s

Prerequisite: MA 511

Gamma and Beta functions; line, surface, and space integrals; Green's theorem; Stoke's theorem; expansion of functions in Fourier series, applications to boundary value problems; introduction to the theory of functions of a complex variable, including simple mapping problems, contour integration and residue theory; elliptic integrals.

Staff

MA 514 BOUNDARY VALUE PROBLEMS

3 (3-0) f

Prerequisite: MA 511, 512 (One year of advanced calculus)

Ordinary homogeneous and non-homogeneous differential equations with boundary values; elements of partial differential equations; applications of Fourier series and other methods to the solutions of certain boundary value problems in partial differential equations; harmonic functions.

Staff

MA 521 ADVANCED GEOMETRY

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

Coordinates in space; direction angles and cosines; planes, lines, points; matrices; surfaces and curves; quadric surfaces; transformations; analysis of general equation of degree 2; matrix algebra and its applications; introduction to algebraic geometry.

Staff

MA 522 THEORY OF PROBABILITY

3 (3-0) s

Prerequisite: MA 401

Definitions, discrete and continuous sample spaces, combinatorial analysis, Sterling's formula, simple occupancy and ordering problems, conditional probability, repeated trials, compound experiments, Bayes' theorem, binomial, Poisson and normal distributions, the probability integral, random variables, expectation.

Staff

MA 532 ADVANCED DIFFERENTIAL EQUATIONS

3 (3-0) s

Prerequisite: MA 401

Series solutions of differential equations; approximate methods; the gamma functions; Bessel functions; Legendre polynomials; introduction to the solution of partial differential equations and applications.

MA 533 HISTORY OF MATHEMATICS

3 (3-0) s

Prerequisite: MA 202 (One year of calculus)

Evolution of the number systems; trends in the development of modern mathematics; lives and contributions of outstanding mathematicians.

Staff

MA 535 AN INTRODUCTION TO COMPUTERS

3 (3-0) f

Prerequisites: MA 401 and any other advanced course

Introduction to the theory of both analog and digital computers; number systems, error analysis, types of computers and memory systems, experience in programming for IBM and GEDA equipment that is on the Campus.

MA 541 VECTOR ANALYSIS

3 (3-0) s

Prerequisite: MA 401

The algebra of vectors and dyadics; elementary space geometry in vector form; scalar and vector differentiation of scalar, vector and dyadic functions, curvilinear coordinates; line, surface, and volume integrals; integral transformations; applications.

Staff

COURSES FOR GRADUATES ONLY

MA 602 PARTIAL DIFFERENTIAL EQUATIONS

3 (3-0) s

Prerequisite: MA 511, 512 (One year of advanced calculus)

Partial differentiation, functional dependence, envelopes, eliminants, Lagrange's equation, general and complete integrals, non-linear equations of first and higher orders; Fourier series with applications to problems in vibrations, heat and fluid flow, electricity; boundary value problems.

Mr. Mumford

MA 604 ORTHOGONAL FUNCTIONS

3 (3-0) f

Prerequisite: MA 512 (One year of advanced calculus) or consent of the instructor

The development of the theory and properties of general orthogonal functions; applications to Fourier, Bessel, Legendre, Hermitian, Laguerre and Tchebycheff types of orthogonal functions. Methods developed here will be used in the solution of problems from physics and engineering.

Graduate Staff

MA 611 COMPLEX VARIABLE THEORY AND APPLICATIONS

3 (3-0) f

Prerequisites: MA 511, 512 (One year advanced calculus)

Elementary functions; analytic functions and Cauchy-Riemann equations; conformal mapping and applications; Taylor and Laurent series; contour integration and residue theory; the Schwarz-Christoffel transformation.

Mr. Bullock

MA 612 ADVANCED COMPLEX VARIABLE THEORY AND APPLICATIONS

3 (3-0) s

Prerequisite: MA 611

A continuation of MA 611. Further development of residue theory; further applications of conformal mapping to flow phenomena; multiple-valued functions and Riemann surfaces; analytic continuation; elliptic functions; differential equations.

Mr. Bullock

MA 622 ADVANCED ALGEBRA

3 (3-0) s

Prerequisite: MA 202 (One year of calculus)

Introduction to matrices, vector spaces, equivalence, rank, inverse of matrices; determinants; congruence; quadratic forms, polynomials over a field, similarity characteristic roots.

Messrs. Nahikian, Strobel

MA 623 CALCULUS OF FINITE DIFFERENCES AND DIFFERENCE EQUATIONS

3 (3-0) s

Prerequisite: MA 401

Symbolic methods, generating functions, factorial, gamma, and beta functions; binomial coefficients, methods of summation, the numbers and polynomials of Bernoulli, Boole, Euler, Sterling; interpolation; difference equations.

Mr. Levine

MA 632 OPERATIONAL MATHEMATICS

3 (3-0) f

Prerequisite: MA 611 or consent of instructor

Laplace transform and applications to solutions of ordinary and partial differential equations arising from engineering problems. Fourier integral and Fourier transforms and applications.

Mr. Cell

MA 633 ADVANCED OPERATIONAL MATHEMATICS

3 (3-0) s

Prerequisite: MA 632

(This course will ordinarily be offered in alternate years)

Extended development of the Laplace and Fourier transforms, Hankel and other transforms in solution of problems in ordinary and partial differential equations and in difference equations; Sturm-Liouville.

Mr. Cell

MATHEMATICS

MA 635 MATHEMATICS OF COMPUTERS

3 (3-0) s

Prerequisite: MA 512 and 535

Corequisite: MA 622

Boolean Algebra and logical design; advanced programming including abstract methods; error analysis, special techniques; applications to solution of problems in linear and nonlinear ordinary and partial differential equations, systems of simultaneous linear algebraic equations, integral equations, etc.

Messrs. Bullock, Cell

MA 641 CALCULUS OF VIBRATIONS

3 (3-0) f

Prerequisite: MA 511

The simplest problem of the Calculus of Variations in detail; variable and end-points; iso-perimetric problems; Hamilton's Principle; Least Action Principle; generalizations.

Mr. Winton

MA 651 EXPANSION OF FUNCTIONS

3 (3-0) f

Prerequisites: MA 611 and 632 or consent of instructor

(Course offered in alternate years)

Expansion of functions of one or several variables in Taylor series; asymptotic series; infinite products, partial fractions, continued fractions, series of orthogonal functions; Fuchsian theory in ordinary differential equations.

Mr. Cell

MA 661 TENSOR ANALYSIS I

3 (3-0) f

Prerequisites: MA 512, 541

Recommended (but not required) MA 521, 602, 622

The basic theory; tensor algebra, tensor calculus; invariant theory; quadratic differential forms; covariant differentiation, curvature tensor; geometric applications, Riemannian spaces, parallelism, geodesics, normal coordinates; generalized vector analysis; physical applications: Dynamics, Lagrange's equations, generalized coordinates; the geometry of dynamics; kinematic and action line elements, holonomic and non-holonomic systems; configuration space, dynamics in n-dimensions.

Mr. Levine

MA 662 TENSOR ANALYSIS II

3 (3-0) s

Prerequisite: MA 661

Continuation of physical applications. Elasticity: finite strains, equations of compatibility, strain invariants, stress tensor, equations of motion, generalized Hooke's law, isotropic stress-strain relations; Hydrodynamics: perfect fluids, viscous fluids, viscosity tensor; Equations of motion; Electromagnetic theory: Maxwell's equations, plane waves, stress-energy tensor; Relativity: Lorentz transformation, field equations, Schwarzschild solution, planetary orbits.

Mr. Levine

MA 681, 682 SPECIAL TOPICS IN MATHEMATICS

3 (3-0) f s

Prerequisite: Graduate standing and consent of instructor

Elective

This course provides an opportunity for small groups of graduate students to study, under the direction of qualified members of the professional staff, advanced topics in their special fields of interest.

Graduate Staff

MA 691 RESEARCH IN MATHEMATICS

Credits by arrangement

Prerequisite: Graduate standing and approval of advisor

Individual research in the field of mathematics.

MATHEMATICS AND SCIENCE EDUCATION — — —

ED 470 METHODS OF TEACHING MATHEMATICS

3 (3-0) f

A study of the purposes, methods, materials and evaluation practices appropriate for teachers of mathematics at the secondary level.

ED 471 STUDENT TEACHING IN MATHEMATICS

10 (2-20) f

This course is intended to provide the prospective teacher with an opportunity to get experience in the skills and techniques involved in teaching mathematics. Each student during the senior year will spend one quarter off-campus in a selected center. In addition to acquiring the necessary competencies for teaching mathematics, the student teacher will also have an opportunity to become familiar with the total school program and to participate in as many community activities as time will permit during the period of student teaching.

ED 475 METHODS OF TEACHING SCIENCE

3 (3-0) f

A study of the purposes, methods, materials and evaluation practices appropriate for teachers of physical and natural science at the secondary level.

ED 476 STUDENT TEACHING IN SCIENCE

10 (2-20) f

This course is intended to provide the prospective teacher with an opportunity to get experience in the skills and techniques involved in teaching science. Each student during the senior year will spend one quarter off-campus in a selected center. In addition to acquiring the necessary competencies for teaching science, the student teacher will also have an opportunity to become familiar with the total school program and to participate in as many community activities as time will permit during the period of student teaching.

— — — — — **MECHANICAL ENGINEERING**

COURSES FOR UNDERGRADUATES

ME 101, 102 ENGINEERING GRAPHICS I, II

2 (0-4) f s

Corequisite: MA 101 or MA 111

The objective of these courses is to teach the student the proper methods and procedures for interpreting this medium of communication by the various theories and practices in the graphical field. Emphasis will be placed on instrument practice; geometrical construction; free hand technical sketching of all projects; completion of prepared worksheets; projections; sections; auxiliary projections; revolution; pictorial projections; fasteners, intersection and development; details and assemblies; charts and graphs; tracing and demonstrations in various reproductions; geometrical magnitudes represented by points, lines, planes and solids with emphasis upon visualization.

ME 271, 272 AIR CONDITIONING DRAWING I, II

2 (0-4) f s

Prerequisite: ME 102

Required of sophomores in Heating and Air Conditioning

Drawing board work on heating symbols; sheet metal drawing, duct layout, steam piping (single line, double line, isometric and other pictorials); hot water and other piping, valves, traps, filters, and miscellaneous equipment; boiler hookups and connections, compressor and condenser layout; use of catalog data and tables as applied to drafting practices.

ME 301 ENGINEERING THERMODYNAMICS I

3 (3-0) f or s

Prerequisites: MA 202, PY 201

Fundamental laws of energy transformations with emphasis on the First and Second Laws; behavior of gases and vapors; elementary applications.

ME 302 ENGINEERING THERMODYNAMICS II

3 (3-0) s

Prerequisite: ME 301

A continuation of Engineering Thermodynamics I for Mechanical Engineering juniors. Thermodynamics of gaseous mixtures, combustion, gas compressors, steam turbines, refrigeration, air conditioning, internal combustion engines, and gas turbines.

ME 303 ENGINEERING THERMODYNAMICS III

3 (3-0) f

Prerequisite: ME 301

A continuation of Engineering Thermodynamics I for non-Mechanical Engineering students. Applications of fundamental thermodynamic principles, particularly in the Heat Power field, elements of heat transfer.

ME 304 FUNDAMENTALS OF HEAT POWER

3 (3-0) f

Prerequisite: PY 212

Energy and energy transformations, including a brief discussion of measurements of quantities involved. Properties of working substances, particularly steam. Elementary combustion of fuels. Steam power cycles and applications to steam turbines. Elements of Heat Transfer.

ME 305, 306 MECHANICAL ENGINEERING LABORATORY I, II

1 (0-3) f s

Corequisite: ME 301, 302

Instrumentation as applied to pressure, temperature, speed, power, and fluid flow measurements; determination of properties of fuels and lubricants; applications of instrumentation to determination of characteristics of nozzles, pumps, turbines and compressors.

ME 311 KINEMATICS

3 (1-6) f or s

Prerequisites: ME 102, EM 311

Corequisite: EM 312

Required of juniors in ME and MEA.

This course is a study of kinematics of machines and consists of a systematic study of the displacements, velocities, and accelerations which occur in mechanisms.

ME 312 DYNAMIC ANALYSIS

3 (1-6) s

Prerequisites: ME 311

Required of juniors in ME

The analysis and control of forces in machines. Includes inertia forces, free and forced vibrations, and control systems.

MECHANICAL ENGINEERING

ME 351 ELEMENTS OF AERONAUTICAL ENGINEERING

3 (3-0) f

Prerequisites: MA 202, PY 202

Corequisite: EM 312

The airplane and its component parts, terminology, basic fluid mechanics and the principles of flight, airfoil characteristics, and an introduction to performance and stability analysis.

ME 352 AERODYNAMICS

3 (3-0) s

Prerequisite: ME 351, MA 401

Fundamental concepts underlying experimental aerodynamics, the aerodynamicist's data, elementary flow theory, Reynolds number and the effect of viscosity, Mach number and compressibility, finite wing theory.

ME 371, 372 ELEMENTS OF HEAT POWER I, II

3 (3-0) f s

Prerequisites: MA 201, PY 212

Required of juniors in Heating and Air Conditioning

Basic laws of thermodynamics; applications to gaseous mixtures, combustion, compressors, refrigeration, heating and air conditioning; principles of steam power plants with emphasis on generation of steam and availability of by-product steam for heating purposes.

ME 375, 376 AIR CONDITIONING LABORATORY I, II

1 (0-3) f s

Concurrent with ME 371, 372

Required of juniors in Heating and Air Conditioning

The use, limitation and calibration of instruments for the measurement of temperature, pressure, power, speed and fluid flow; measurement of properties of fuel and lubricants; determinations of characteristics of pumps, compressors and turbines.

ME 377 BUILDING MECHANICS A

3 (3-0) s

For third year Architecture students only

Heating principles, systems and control; air conditioning principles, systems and controls; fuels, ventilation; pumps; and acoustical control.

ME 378 BUILDING MECHANICS B

3 (3-0) f

For fourth year Architecture students only

Principles of plumbing including venting, drainage, demand and load calculations, water distribution, pipe sizing, storm drainage, sprinkler systems; elevators and conveyors; illumination, lighting and power circuits, panels and service connections and codes.

ME 379 MECHANICAL EQUIPMENT OF BUILDING

3 (3-0) s

Prerequisite: ME 371

Required of seniors in Heating and Air Conditioning

Study of mechanical equipment of buildings including elevators, pumps, drainage and venting, pipe sizing of water lines, hot water storage and distribution, sprinkler systems, State and local codes for plumbing, heating, electrical and building trades; acoustical control, and the principles of wiring specifications for the mechanical trades.

ME 381, 382 AIR CONDITIONING I, II

3 (3-0) s f

Prerequisite: ME 371

Required of seniors in Heating and Air Conditioning

Principles of heating and air conditioning and their applications to the design and operation of heating and air conditioning systems; methods of controls of various component parts of such systems.

ME 401 POWER PLANTS

3 (3-0) f or s

Prerequisite: ME 302

Required of seniors in Mechanical Engineering

Application of thermodynamics, economics and principles studied in other basic courses of the mechanical engineering curriculum to the engineering of thermal power plants including the energy balance, combustion, steam generators, prime movers, heat transfer devices, compressors, pumps and auxiliaries.

ME 403 INTERNAL COMBUSTION ENGINES

2 (2-0) f or s

Prerequisite: ME 302

The principles of thermodynamics, mechanics, and kinematics as applied to the design, construction, and operation of the internal combustion engines.

ME 405, 406 MECHANICAL ENGINEERING LABORATORY III, IV

1 (0-3) f s

Prerequisite: ME 306

Determinations of performance of heat power equipment with emphasis on heat transfer and fluid flow.

MECHANICAL ENGINEERING

ME 410 JET PROPULSION

3 (3-0) s

Prerequisite: ME 302 and ME 352 or EM 430

Application of fundamental principles of thermodynamics and the mechanics of a compressible fluid to the processes of jet-propulsion and turbo-propeller aircraft; the effect of performance of components on performance of engine; analysis of engine performance parameters.

ME 411, 412 MACHINE DESIGN II, III

3 (1-6) f s

Prerequisites: For ME 411: EM 321, for ME 412: ME 311, 411

Required of seniors in Mechanical Engineering

A study of the methods of designing machine elements to withstand steady and varying forces and to operate without excessive wear at friction areas. Elementary stress analysis is followed by combined stresses, applied to such elements as keys, shafts, springs, bearings, belting, clutches, brakes, frames, and gears.

ME 441, 442 TECHNICAL SEMINAR

1 (1-0) f s

Prerequisite: Junior or senior standing

Elective for juniors or seniors in ME

Meetings once a week for the delivery and discussion of student papers on topics of current interest in Mechanical Engineering.

ME 453 APPLIED AERODYNAMICS

3 (3-0) f

Prerequisite: ME 352

Determination of design data, tunnel wall and ground effect interference corrections, spanwise and chordwise load distributions, performance estimation, and stability and control analysis. Attention is given to transonic and supersonic aerodynamics.

ME 455, 456 AERONAUTICAL LABORATORY I, II

1 (0-3) f s

Prerequisites: ME 306, 352

Demonstration of wind tunnel testing methods and principles of fluid motion. Aerodynamic tests of airplane components and complete models. Calibration of instruments and other laboratory exercises related to aeronautical engineering.

ME 459 AIRCRAFT STRUCTURES

3 (3-0) f

Prerequisites: ME 351, EM 321

Theory of aircraft structures, design principles and methods of stress analysis, emphasis on thin-walled structures.

ME 461, 462 AIRPLANE DESIGN I, II

3 (1-6) f s

Prerequisites: For ME 461, ME 351; for ME 462: ME 461, 459

Design procedure, preliminary layout from design specifications, weight and balance performance estimation, control and stability analysis, principles of stress analysis.

ME 473 REFRIGERATION

3 (3-0) f

Prerequisite: ME 372

Required of seniors in Heating and Air Conditioning

The fundamental principles of refrigeration, the performance of various types of refrigerating machines and their applications to air conditioning; controls of such systems.

ME 475, 476 AIR CONDITIONING LABORATORY III, IV

1 (0-3) f s

Concurrent with ME 481, 482

Required of seniors in Heating and Air Conditioning

The testing of heat transfer equipment including feed water heaters, radiators, convectors, unit heaters, heating panels, heating boilers, hot air furnaces, stokers, oil burners; air conditioners of both the spray and coil types evaporative condensers.

ME 481, 482 AIR CONDITIONING DESIGN I, II

3 (1-6) f s

Prerequisite: ME 381

Required of seniors in Heating and Air Conditioning

The design, layout and cost estimates of various types of heating and air conditioning systems.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ME 501 STEAM AND GAS TURBINES

3 (3-0) f

Prerequisites: ME 302 and EM 430 or ME 352

Fundamental analysis of the theory and design of turbomachinery flow passages control and performance of turbomachinery; gas-turbine engine processes.

ME 502 HEAT TRANSFER

3 (3-0) f or s

Prerequisite: ME 301

A study of the fundamental laws of heat transfer by conducting convection and radiation. steady and unsteady states heat transfer, elementary application to heat transfer equipment.

MECHANICAL ENGINEERING

ME 507, 508 INTERNAL COMBUSTION ENGINE FUNDAMENTALS 3 (3-0) f s

Prerequisite: ME 302

The fundamentals common to internal combustion engine cycles of operation. The Otto engine: carburetion, fuel distribution, flame propagation, normal and knocking combustion, throttling, pumping, valve and spark timing, and altitude effects; the Diesel engine: injection and spray formation, fuel rating, atomization, penetration, diesel knock, combustion, pre-combustion, and scavenging as applied to reciprocating and rotary engines.

Staff

ME 509, 510 INTERNAL COMBUSTION ENGINE LABORATORY 2 (0-6) f s

Corequisite: ME 507

Laboratory exercises in the fields of spark-ignition and compression-ignition heat engines.

Staff

ME 511, 512 INTERNAL COMBUSTION ENGINE FUELS 2 (2-0) f s

Prerequisite: ME 302

A development of the formation, composition, processing, and treatment of gaseous, liquid, solid, and colloidal fuels, their preparation, combustion, ignition, temperatures, inflammability, products of combustion, specifications, CRC tests and impurity determinations, as they would influence the design, operation, and maintenance of the internal combustion engine. The potentialities of new sources of energy are explored.

Staff

ME 513 ENGINE DESIGN 3 (3-0) s

Prerequisite: ME 507

Diesel engine parts, sub-assemblies, components, and their bearings and supports are studied from the aspect of strength, stress distribution, materials, method of manufacture, finishes and treatment. Frames, bases, moving parts, components and accessories are designed around standards adopted by the industry. Welding, casting, and forging practices of the industry are studied.

Staff

ME 514 DIESEL ENGINE APPLICATIONS 3 (3-0) s

Corequisite: ME 508

A study of the application of the Diesel engine in the fields of transportation, portable power plants, and stationary power plants. Case histories and methods for the selection of Diesel engines to satisfy the power requirements of each field are investigated.

ME 515 EXPERIMENTAL STRESS ANALYSIS 3 (2-3) f

Prerequisites: ME 312, EM 321

Stresses determined experimentally by photoelasticity methods, by mechanical and electrical strain gages, by brittle coatings, etc. Effects of varying stresses.

ME 517 LUBRICATION 3 (2-3) s

Prerequisite: EM 430

The theory of viscous and boundary lubrication. Bearing design from various approaches. Thermal equilibrium. Properties of lubricants.

ME 536 AIRCRAFT ENGINES 3 (3-0) s

Prerequisite: ME 302

Spark-ignition, compression-ignition, and jet engines are studied from the standpoint of design, construction, and operation and as they apply to aircraft.

Staff

ME 545, 546 PROJECT WORK IN MECHANICAL ENGINEERING I, II 2 (0-6) f s

Individual or group assigned design, construction, analytical or experimental projects in Mechanical Engineering.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ME 551 FLYING QUALITIES 3 (3-0) f

Prerequisite: ME 352

Evaluation of flying qualities of airplanes, important factors and criteria for design, analysis of stick-fixed and stick-free control and stability, maneuvering stability, lateral controllability, and stick force determination.

ME 552 AIRCRAFT APPLIED LOADS 3 (3-0) s

Prerequisite: ME 453

Determination of aerodynamics loads, maneuvering and gust loads, V-g diagram, spanwise distributions on unswept and swept wings, dynamic flight loads. Consideration of the load modifications in the transonic flight range.

ME 553 PROPELLER AND ROTARY WING DESIGN 3 (3-0) f

Prerequisite: ME 352

A study of the design of aircraft propellers and rotary wing theory and design. Discussion of problems of performance evaluation, control and stability, as applied to rotating wing aircraft.

ME 554 ADVANCED AERODYNAMIC THEORY

3 (3-0) s

Prerequisite: ME 453

Development of fundamental aerodynamic theory. Emphasis upon mathematical analysis and derivation of equations of motion, airfoil theory and comparison with experimental results. Introduction to supersonic flow theory.

ME 562 ADVANCED AIRCRAFT STRUCTURES

3 (3-0) s

Prerequisite: ME 459

Development of methods of stress analysis for aircraft structures, special problems in structural design, stiffened panels, rigid frames, indeterminate structures, general relaxation theory.

ME 571 AIR CONDITIONING

3 (3-0) f

Prerequisite: ME 302

Principles of heating and ventilation; warm air, steam and hot-water heating systems; air conditioning.

ME 572 REFRIGERATION

3 (3-0) s

Prerequisite: ME 302

An analysis of the simple, compound, centrifugal and multiple effect compression system, the steam jet and the absorption systems of refrigeration.

COURSES FOR GRADUATES ONLY

ME 601, 602 ADVANCED ENGINEERING THERMODYNAMICS I, II

3 (3-0) f s

Prerequisite: ME 302 or ME 303

First and Second Laws; theory of variable specific heats; general equations of thermodynamics; characteristic equations of state; reduced coordinates; prediction of properties of gases and vapors; chemical equilibrium; metastable states; thermodynamics of fluid flow.

ME 603 ADVANCED POWER PLANTS

3 (3-0) f

Prerequisite: ME 401

A critical analysis of the energy balance of thermal power plants thermodynamics and economic evaluation of alternate schemes of development; study of recent developments in the production of power.

ME 604 NUCLEAR POWER PLANTS

3 (3-0) s

Prerequisites: ME 302, 502, EM 430, PY 419

Resources of fuels, power reactors, reactor materials and properties, coolants, pumps, heat exchangers, nuclear gas turbine power plants, nuclear steam power plants special purpose plants, the economics of nuclear power and selected topics on shielding waste disposal and health precautions.

Mr. Lee

ME 605, 606 INTERNAL COMBUSTION ENGINE CALCULATIONS

3 (3-0) f s

Prerequisite: MA 401

An advanced study of the conversion of chemical energy in spark-ignition and compression-ignition engines as influenced by Gibbs phase rule, Gibbs-Dalton law, fugacity of gas mixtures, in the analysis of conventional engine cycles, compound power cycles, closed cycles and Kreislauf cycle, in the determination of efficiencies and performance as functions of power output and ambient conditions. Kadenacy and inertia charging effects on two-cycle engines are analyzed.

ME 607, 608 INTERNAL COMBUSTION ENGINE VIBRATION ANALYSIS

3 (3-0) f s

Prerequisite: MA 401

Corequisites: ME 507, 508

Equivalent elastic systems and configurations for internal combustion engines and their rotating and reciprocating masses, elasticities of crankshafts, drive shafts, and couplings. Methods of calculating natural frequencies, elastic modes, exciting torques, and stresses energy absorbing and dynamic dampers, vibration isolators, vibrations in engine parts turbine blades, valve springs, intake and exhaust manifolds, injection pipes, and parallel operation are studied mathematically and graphically.

Staff

ME 609, 610 INTERNAL COMBUSTION ENGINE POWER PLANT DESIGN

3 (3-0) f s

Prerequisite: ME 508

The power requirements for typical industrial, municipal, institutional and regional power plants are analyzed, survey reports and specifications compiled, design and detail layouts executed, and installation schedules developed with the internal combustion engine as the source of power.

Staff

METALLURGICAL ENGINEERING

ME 611, 612 ADVANCED MACHINE DESIGN I, II

3 (3-0) f s

Prerequisite: ME 412

Stress analysis applied to advanced design problems; unsymmetric bending, curved beams, flat plates, non-circular members in torsion, thick walled cylinders, localized stresses; special problems according to the interests of the class.

ME 613 MECHANICS OF MACHINERY

3 (3-0) f

Prerequisite: ME 311

Kinetics of machines, with emphasis on inertia forces; balancing of machine members and reciprocating machines.

ME 641, 642 MECHANICAL ENGINEERING SEMINAR I, II

1 (1-0) f s

Faculty and graduate student discussions centered around current research problems and advanced engineering theories and developments.

ME 645 MECHANICAL ENGINEERING RESEARCH

3 to 6

Prerequisite: Graduate standing in ME and approval of adviser.

Individual research in the field of Mechanical Engineering.

ME 651 PRINCIPLES OF FLUID MOTION

3 (3-0) f

Prerequisite: ME 352 or equivalent

Co-requisite: MA 511

Fundamental principles of fluid dynamics. Mathematical methods of analysis are emphasized. Potential flow theory development with introduction to the effects of viscosity and compressibility. Two dimensional and three dimensional phenomena are considered.

ME 652 DYNAMICS OF COMPRESSIBLE FLOW

3 (3-0) s

Prerequisite: ME 651

Properties of compressible fluids, equation of motion of one-dimensional motion, channel flows, shock wave theory, methods of observation, and flows at transonic speeds.

ME 653 SUPERSONIC AERODYNAMICS

3 (3-0) f

Prerequisite: ME 652

Equations of motion in supersonic flow, Prandtl-Meyer turns, method of characteristics, hodograph plane, supersonic wind tunnels, supersonic airfoil theory, and boundary layer shock interaction.

ME 654 DYNAMICS OF VISCOUS FLUIDS

3 (3-0) s

Prerequisite: ME 651

Development of the Navier-Stokes equations and the boundary layer theory. Laminar and turbulent boundary layers in theory and experiment, flow separation, and transition.

ME 671, 672 ADVANCED AIR CONDITIONING DESIGN I, II

3 (3-0) f s

Prerequisites: ME 571, 572

The design of heating and air conditioning systems; the preparation of specifications and performance tests on heating and air conditioning equipment.

METALLURGICAL ENGINEERING— — — — —

COURSES FOR UNDERGRADUATES

MIM 201, 202 STRUCTURE AND PROPERTIES OF ENGINEERING MATERIALS I, II

3 (2-3) f s

Prerequisite: CH 103

I. An introduction to the fundamental physical principles governing the structure and constitution of metallic and non-metallic materials of construction, and the relation of these principles to the control of properties.

II. Important applications of engineering materials and criteria for selection of materials.

MIM 321 METALLURGY

3 (2-3) s

Prerequisite: CH 103

A general course in physical metallurgy including laboratory work.

The constitution, structure, and properties of metals and alloys.

MIM 331, 332 PHYSICAL METALLURGY I, II

3 (3-0) f s

Prerequisites: CH 103, MIM 201

Required of juniors in MTE

The fundamental principles of physical metallurgy with emphasis on correlation between structure, constitution, and properties of metals and alloys. A systematic development of the metallurgical aspects of atomic and crystalline structure, solid solutions, diffusion, precipitation hardening, elastic and plastic behavior, and recrystallization.

MILITARY AND AIR SCIENCE

MIM 421, 422 METALLURGY I, II

2 (2-0) f s

Prerequisite: CH 103

Required of seniors in ME

The constitution, structure and properties of engineering ferrous and non-ferrous metals and alloys; influences of mechanical working and heat treatment; physical testing, corrosion and its prevention.

MIM 423 METALLURGY LABORATORY

1 (0-3) f s

Corequisite: MIM 421, or 422

Laboratory experiments to accompany MIM 421, 422.

MIM 445, 446 EXPERIMENTAL ENGINEERING I, II

3 (1-6) f s

Prerequisite: MIM 422 or approval by instructor

Advanced engineering principles applied to a specific project dealing with metallurgy, metallography, or general experimental work. A seminar period is provided, and a written report is required.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

MIM 521, 522 ADVANCED PHYSICAL METTALLURGY I, II

3 (3-0) f s

Prerequisite: MIM 422, or approval by instructor

Theories concerning behavior and control of engineering alloys, reaction rates in the solid state and alloy influences; current heat treating practices, surface treatments; behavior of metals at high and low temperatures; special purpose alloys; powder metallurgy; review of modern equipment and methods for the study of metals.

MIM 523 METALLURGICAL FACTORS IN DESIGN

2 (2-0) s

Prerequisite: MIM 422

Study of the metallurgical factors that must be considered in using metals in design.

Handwritten notes:
MIM 524. Metall. Factors in Design. — 2
MIM 541. 2. Prin. of Corrosion I & II — 3-3
MIM 651. 2. Heavy & Structure of Metals — 3-3
MIM 645. Metall. Engg. Research — 3-3

MILITARY SCIENCE AND TACTICS

MILITARY SCIENCE—THE BASIC COURSE*

MS 101, 102 MILITARY SCIENCE I

2 (2-2) f s

Classroom instruction is given in Military History, Organization of the Army, Individual Weapons and Marksmanship, and Military Courtesy. On the drill field, emphasis is placed on development of teamwork, esprit de corps, and essential characteristics of leadership.

MS 201, 202 MILITARY SCIENCE II

2 (0-4) f s

Prerequisites: Military Science I or equivalent credit

Classroom instruction is given in Map Reading, Crew-served Weapons and Gunnery. On the drill field, emphasis is placed on development of teamwork, esprit de corps, essential characteristics of leadership, and acceptance of responsibility.

THE ADVANCED COURSE

MS 301, 302 MILITARY SCIENCE III

3 (2-4) f s

Prerequisites: Military Science I and II, or equivalent credit

Classroom instruction is given in Tactics, Organization, Function and Mission of the Arms and Services, Methods of Instruction, Communications, and Leadership. On the drill field, further emphasis is placed on acceptance of responsibility, exercise of command, and development of self-confidence, initiative and dignity in appearance and demeanor.

MS 401, 402 MILITARY SCIENCE IV

3 (2-4) f s

Prerequisites: Military Science III and satisfactory completion of six weeks' summer camp training.

Classroom instruction is given in Tactics, Logistics, Operations, Personnel Management, Military Administration, and Service Orientation. On the drill field, emphasis is placed on exercise of command, planning and executing all phases of training instruction in basic fundamentals, inspections, ceremonies, and competitions) and maximum development of teamwork, esprit de corps, and leadership characteristics.

MODERN LANGUAGES

AIR SCIENCE—THE BASIC COURSE*

AS 121, 122 AIR SCIENCE I

2 (2-2) f s

Instruction is given in Introduction to Aviation, Fundamentals of Global Geography, International Tensions and Security Organizations, and Instruments of National Military Security, and Leadership Laboratory.

AS 221, 222 AIR SCIENCE II

2 (2-2) f s

Prerequisite: AS I or equivalent credit

Instruction is given in Elements of Aerial Warfare, Careers in USAF, and Leadership Laboratory—Cadet Non-Commissioned Officers' Training.

THE ADVANCED COURSE

AS 321, 322 AIR SCIENCE III

3 (4-2) f s

Prerequisites: AS I and II or equivalent credit

Instruction is given in Air Force Commander and Staff, Problem Solving Techniques, Communications Process and Air Force Correspondence, Military Justice System, Applied Air Science, Aircraft Engineering, Navigation and Weather, Air Force Base Functions, and Leadership Laboratory.

Note: Cadets attend Summer Camp after Air Science III and before taking Air Science IV.

AS 421, 422 AIR SCIENCE IV

3 (4-2) f s

Prerequisite: AS III

Summer Camp is critiqued. Instruction is given in Principles of Leadership and Management (Seminar), Career Guidance, Military Aspects of World Political Geography, Military Aviation and the Art of War, Briefing for Commissioned Service, and Leadership Laboratory.

* All veterans in service as long as six months are excused from this course but may enroll in the basic course in Army or Air Force ROTC to qualify for later enrollment in advanced courses. See also the Division of Military and Air Science and Tactics, pages 165-168.

MINERAL INDUSTRIES

CERAMIC ENGINEERING (see pages 184-186)

GEOLOGY (see pages 224-226)

METALLURGICAL ENGINEERING (see page 252)

MODERN LANGUAGES

FRENCH

ML 101 ELEMENTARY FRENCH

3 (3-0) f c

Structure, diction, pronunciation, and other matters of technique of the language, supplemented by readings and translations. No previous training in the language necessary.

ML 102 FRENCH GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 101 or equivalent

A survey of the basic elements of grammar accompanied and illustrated by intermediate readings progressing to the reading of standard texts.

ML 201* FRENCH PROSE: SELECTIONS FROM MODERN FRENCH LITERATURE

3 (3-0) f s

Prerequisites: ML 101, 102 or equivalent**

Selected readings from literary French of the 18th and 19th centuries. Attention given to the attainment of skill in reading and comprehension.

ML 202* FRENCH PROSE: FRENCH CIVILIZATION

3 (3-0) f s

Prerequisites: ML 101, 102 or equivalent**

After a preliminary survey of the land and people of France, such topics as language, arts, science, literature, philosophy, etc., are given consideration. Parallel readings and reports.

* Courses numbered above ML 102 need not be followed as a sequence in their respective gamut.

** Two years of high-school work will be considered the equivalent of ML 101 and 102.

ML 301 SURVEY OF FRENCH LITERATURE

3 (3-0) f s

Prerequisite: Junior or senior standing

Lectures illustrated by selected readings in translation covering the development of the novel, the drama, the short story and the poetry of France from the 12th century to the present. Parallel readings and reports. No language prerequisites.

ML 401, 402 INTRODUCTORY SCIENTIFIC FRENCH

3 (3-0) f s

Prerequisites: ML 201, 202 or equivalent

A study of scientific French of intermediate difficulty, supplemented with lectures on terminology and other linguistic techniques. The needs of students whose interest is that of the acquisition of a reading knowledge of the language are constantly kept in view. Basic technique of translation explained and demonstrated by means of personal conferences.

ML 501, 502 ADVANCED SCIENTIFIC FRENCH

3 (3-0) f s

Prerequisites: ML 401, 402 or equivalent

A study of scientific literature appearing in current bulletins, magazines and technical journals. Designed to meet the needs of students whose interest in the language is primarily that of reading ability. Choice of reading material adjusted to individual needs may be taken by students of varying degrees of previous linguistic training.

GERMAN

ML 103 ELEMENTARY GERMAN

3 (3-0) f s

Study of the structure and technique of the language, supplemented by easy reading and translations. No previous training in the language necessary.

ML 104 GERMAN GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 103 or equivalent

A course designed primarily for students who wish to attain proficiency in reading German. Attention given to basic grammar and vocabulary with practice in the translation and interpretation of German Prose.

ML 203* GERMAN PROSE: SELECTIONS FROM MODERN GERMAN LITERATURE

3 (3-0) f s

Prerequisites: ML 103, 104 or equivalent**

Readings in German Literature, a study of representative authors and their contribution to the development of the German language and culture. Parallel readings and reports.

ML 204 GERMAN PROSE: GERMAN CIVILIZATION

3 (3-0) f s

Prerequisites: ML 103, 104 or equivalent**

Readings in the history and customs of Germany, supplemented by lectures on such topics as language, arts, science, philosophy, etc. Parallel readings and reports.

ML 303 SURVEY OF GERMAN LITERATURE

3 (3-0) f s

Prerequisite: Junior or senior standing

The study of various types of German Literature. A brief outline of German literary development. Parallel readings in translation. No previous training in the language necessary.

ML 403, 404 INTRODUCTORY SCIENTIFIC GERMAN

3 (3-0) f s

Prerequisites: ML 203, 204 or equivalent

A study of scientific German of intermediate difficulty supplemented with lectures on terminology and other linguistic techniques. The needs of students whose interest is that of the acquisition of a reading knowledge of the language are constantly kept in view. Basic technique of translation explained and demonstrated by means of personal conferences.

ML 503, 504 ADVANCED SCIENTIFIC GERMAN

3 (3-0) f s

Prerequisites: ML 403, 404 or equivalent

Reading and translations of relatively difficult technical German, supplemented by lectures on terminology, word order, vocabulary analysis and other linguistic techniques. Designed to meet the needs of students whose interest in the language is primarily that of reading ability. Choice of reading material adjusted to individual needs may be taken by students of varying degrees of previous linguistic training.

SPANISH

ML 105 ELEMENTARY SPANISH

3 (3-0) f s

Structure, diction, pronunciation, and other matters of technique of the language, supplemented by easy readings. No previous training in the language necessary.

* Courses numbered above ML 104 need not be followed as a sequence in their respective gamut.

** Two years of high-school work will be considered the equivalent of ML 103 and 104.

MODERN LANGUAGES

ML 106 SPANISH GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 106 or equivalent

A survey of the basic elements of grammar accompanied and illustrated by intermediate readings progressing to the reading of standard texts.

ML 205* SPANISH PROSE: IBERIA

3 (3-0) f s

Prerequisites: ML 105, 106 or equivalent**

Emphasis is placed upon translating Spanish prose and developing vocabulary. The readings give the student a comprehensive picture of the culture, geography, history and economy of Spain.

ML 206 SPANISH PROSE: HISPANO-AMERICA

3 (3-0) f s

Prerequisites: ML 105, 106 or equivalent

Emphasis is placed upon translating Spanish prose and developing vocabulary. The readings give the student a comprehensive picture of the culture, geography, history and economy of the Spanish American countries.

ML 305 SURVEY OF SPANISH LITERATURE

3 (3-0) f s

Prerequisite: Junior or senior standing

Lecture illustrated by selected reading in translation covering the development of the novel, drama, short story and poetry of Spain from 1300 to the present. Parallel reading and reports by students.

ML 307, 308 TECHNICAL SPANISH

3 (3-0) f s

Prerequisite: ML 205 or equivalent

A study of technical and industrial literature. Particular attention given to the special terminology characteristic of such literature with a view to the acquisition of a practical vocabulary. Individual conferences and reports.

ML 405, 406 SCIENTIFIC SPANISH

3 (3-0) f s

Prerequisites: ML 307, 308 or equivalent

A study of scientific literature appearing in current bulletins, magazines, and technical journals. Students given the opportunity of working a translation project in connection with their subject of major interest. Special attention given to the comprehension of the thought of the article under consideration and to its accurate rendition into English. Parallel readings, reports, and conferences.

ENGLISH (FOREIGN STUDENTS)

ML 107 ELEMENTARY ENGLISH: PRONUNCIATION

3 (3-0) f s

Emphasis in this course is laid upon the pronunciation and comprehension of American English. Through oral reports students are encouraged to improve their diction and pronunciation. Comprehension is approached through dictation and lectures. Attention to grammar and spelling is given as individual problems arise.

ML 108 ELEMENTARY ENGLISH: READING

3 (3-0) f s

Emphasis in this course is laid upon the rapid comprehension of written English without the necessity of the student's first translating the material into his own language. Exercises are given in paraphrasing the material read. Continued practice in pronunciation, spelling and grammar. Special attention is paid to idiomatic expressions and Americanisms.

ML 109 ELEMENTARY ENGLISH: COMPOSITION

3 (3-0) f s

Emphasis in this course is laid upon the writing of English, special attention being given to compositions, grammatical exercises, sentence structure, spelling, and diction.

RUSSIAN

ML 110 ELEMENTARY RUSSIAN

3 (3-0) f s

Structure and technique of the language, supplemented by easy readings and translations. Individual reports and conferences.

ML 212 RUSSIAN PROSE: LITERATURE

3 (3-0) f s

Prerequisite: ML 110 or equivalent

Brief survey of Russian literature, a study of representative authors and their contribution to the development of the Russian language and literature.

ITALIAN

ML 112 ELEMENTARY ITALIAN

3 (3-0) f s

Structure, diction, pronunciation, and other matters of technique of the language, supplemented by easy readings, individual reports, and conferences. No previous training in the language required.

* Courses numbered above ML 106 need not be followed as a sequence in their respective gamut.

** Two years of high-school work will be considered the equivalent of ML 105 and 106.

MODERN LANGUAGES

ML 113 ITALIAN GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 112 or equivalent

A survey of basic elements of grammar accompanied and illustrated by intermediate readings, progressing to the reading of standard texts.

GENERAL COURSES

ML 321, 322 ROMANCE LITERATURE

2 (2-0) s

Prerequisite: Junior or senior standing

A course cutting across language barriers to illustrate the most outstanding literary productions of France, Spain, Italy and Portugal and showing the cultural and social pattern of these nationalities having a common language inheritance. Selected readings and reports.

ML 323, 324 GERMANIC LITERATURE

2 (2-0) s

Prerequisite: Junior or senior standing

A study of the literary productions in each of the various types of Germanic literature, and lectures on their cultural background. Designed primarily to meet the needs of students who wish to supplement their knowledge of their own literature with that of the literature of other civilizations. Attention is given to the literary monuments of Germany, Holland, Denmark, Iceland and the Scandinavian countries. No foreign language prerequisites.

— — OCCUPATIONAL INFORMATION AND GUIDANCE

ED 420 PRINCIPLES OF GUIDANCE

2 (2-0) f s

This is a course designed to provide basic principles of guidance for teachers, teacher-counselors administrators, and others in the school, as well as workers in other areas such as the community agency, business, industry, group work, and the like. Among the topics covered are: need for guidance; bases of guidance services; programs of guidance; studying the individual; counseling for educational, vocational, social, and personal problems; group procedures in guidance. Emphasis is on the practical application of guidance principles and procedures.

Instructor: Mr. Tolbert

ED 524 OCCUPATIONAL INFORMATION

2 or 3 (2 or 3-0) s

This course is designed to prepare teachers, counselors, business and industrial personnel workers, placement workers, and others to collect, evaluate, and use occupational and educational information. In addition to the study of the usual source and types of published occupational information, attention will be given to collection of occupational information locally, preparation of the occupational monograph, analysis of job requirements and worker characteristics, occupational trends and factors affecting trends, occupational and industrial structure and classification, and the like. Imparting occupational information to groups and individuals by techniques such as the following are considered: the occupations unit in social studies and other courses, the occupations course, home-room activities, introducing occupational information informally in subject matter courses, the resource file, vocational counseling.

Instructor: Mr. Tolbert

ED 530 GROUP GUIDANCE

2 or 3 (2 or 3-0) s

This course is designed to help teachers, counselors, administrators, and others who work with groups or who are responsible for group guidance activities, to understand the theory and principles of effective group work, to develop skill in using specific group guidance techniques, and to plan and organize group activities in the secondary school and other institutions. The relationship of group activities to counseling and other aspects of guidance services is considered. Methods of evaluating and improving group guidance activities are taken up.

Instructor: Mr. Tolbert

ED 531 INTRODUCTION TO VOCATIONAL REHABILITATION, PROGRAMS AND PROCESSES

3 (3-1) f

This course will serve as an introduction to the broad field of rehabilitation services and programs directed toward the restoration of physically and/or mentally disabled persons into employment. The course will emphasize the State-Federal, and private agency programs. It will be inter-disciplinary in its approach covering the areas of social work, medicine, psychology, sociology and economics. Specialists or appropriate persons in the above areas will be invited to participate. Field trips to agencies will be required.

Instructors: Messrs. Tolbert, Davis

ED 590 INDIVIDUAL PROBLEMS IN GUIDANCE

3 (3-0) f s

Intended for individual or group studies of one or more of the major problems in Guidance and Personnel work. Problems will be selected to meet the interests of individuals. The workshop procedure will be used whereby special projects and reports will be developed by individuals and by groups.

Instructors: Messrs. Anderson, Tolbert

PHILOSOPHY AND RELIGION

COURSES FOR GRADUATES ONLY

ED 631 EDUCATIONAL AND VOCATIONAL GUIDANCE 3 (3-0) f

This course aims to provide training for teachers who are part-time or full-time counselors, employment interviewers, social workers and personnel workers, who are aiding individuals with vocational adjustment problems. The course will cover the functions performed in vocational and educational guidance such as assembling and imparting occupational information, counseling regarding vocational and educational plans, the use of aptitude tests, placement in jobs and follow-up, and procedures in setting up services of vocational and educational guidance in schools, employment offices, and social service agencies.

Instructor: Mr. Anderson

ED 633 TECHNIQUES IN GUIDANCE AND PERSONNEL 3 (3-0) s

This course is designed to aid personnel workers in secondary schools, colleges, employment offices, and social agencies to develop an understanding of and skill in using various guidance and personnel techniques. Some of the techniques to be studied intensively are: anecdotal reports, rating scales, observation, records and reports, sociograms, interviewing, counseling and case study procedures. Students will become acquainted with these techniques through lectures, demonstrations, and the study of case histories. Attention will be given to both diagnosis and treatment.

Instructor: Mr. Anderson

ED 641 FIELD WORK IN OCCUPATIONAL INFORMATION 2 to 9 1-6 to 27) f s

A practical course in which the student undertakes field work in secondary schools, colleges, social service agencies, employment offices, and industrial establishments which carry on guidance and personnel work. The students may observe and participate in some personnel services and may study the organization and administration of the programs.

Instructors: Messrs. Anderson, Tolbert, Davis

ED 651 RESEARCH IN OCCUPATIONAL INFORMATION AND GUIDANCE Maximum 6 credits f s

Qualified students will conduct investigations and research in Guidance and Personnel. Published reports and techniques in investigation will be analyzed and evaluated.

Instructors: Messrs. Anderson, Tolbert

PHILOSOPHY AND RELIGION — — — — —

COURSES FOR UNDERGRADUATES

PHI 201 LOGIC 3 (3-0) f s

Language as symbol system, the formal structure of reasoning, and characteristics of empirical knowledge; emphasis on the establishment of more adequate reflective habits.

PHI 203 EFFECTIVE LIVING 2 (2-0) f s

The meaning of personal growth and maturity; the quest for intellectual and emotional equilibrium in the face of the challenge which modern conditions pose for traditional patterns of thought and behavior; formulation of personal philosophy of life.

PHI 205 PROBLEMS AND TYPES OF PHILOSOPHY 3 (3-0) f s

The great philosophers of the western world, the socio-cultural heritage in which they worked, their major concerns and conclusions; the relation of philosophy to vital questions of human life.

REL 301 RELIGIOUS GROUPS AND TRENDS IN THE UNITED STATES 2 (2-0) f s

Background and characteristic beliefs of the major religious groups in the United States; survey of the dominant trends and movements in contemporary American religion.

REL 302 THE BIBLE AND ITS BACKGROUND 3 (3-0) f s

Background of the Bible: origin, growth and development of central concepts, leading personalities, and the process by which it has come to us as viewed in the light of modern scholarship.

REL 303 CHRISTIAN ETHICS 2 (2-0) f s

An analysis of the major areas of modern life in the light of the ethical teachings of Christianity, with an examination of the religious faith upon which these teachings rest.

PHI 305 PHILOSOPHY OF RELIGION 3 (3-0) f s

Psychological and historical roots of religious belief; science and religion; the rational foundations for belief in theism; the concept of God in Western thought.

PHI 306 PHILOSOPHY OF ART

3 (3-0) f s

Theory of beauty and aesthetic experience; analysis of specific media of artistic expression; and the formulation of a philosophy of art which relates the beautiful and the useful.

PHI 309 MARRIAGE AND FAMILY LIVING

3 (3-0) f s

Secular and religious concepts of marriage; economic, physiological, and socio-psychological aspects of premarital and marital relationships; parenthood; analysis of principles in terms of which value judgments relative to marriage and family living may be met with maximum rationality; formulation of a philosophy of marriage.

PHI 311 PARENT-CHILD RELATIONSHIPS

2 (2-0) f s

Principles of inter-personal relationships; the enhancement of democratic values and the attainment of growth on the part of parent and child through the exercise of freedom, responsibility, and creative activity; consideration of conflicting theories of husband-wife, and parent-child relationships.

PHI 395 PHILOSOPHICAL ANALYSIS

3 (3-0) f s

Semantical, logical, and experimental methods of investigation; intensive application of critical inquiry to a few fundamental problems including the nature of knowledge and its validation, and value judgment; major objective to afford the student personal participation in and acquaintance with philosophical analysis as intellectual tool with wide applicability.

PHI 401 FOUNDATIONS OF SCIENCE

3 (3-0) f s

Nature and validity of knowledge; basic concepts of modern science, scientific method, and the implications of the philosophy of modern science for ethics, social philosophy, and the nature of reality.

REL 403 RELIGIONS OF THE WORLD

3 (3-0) f s

Background, general characteristics, and basic teachings of the major living religions of the world; consideration of contemporary secular movements that are in a sense religions.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PHI 501 SOCIAL ETHICS

3 (3-0) f s

Prerequisite: Six term credits in Philosophy or related fields
Major ethical theories and the issue posed as basic in each; the problem of value in the light of modern knowledge; ethical principles as ground for cultural unity; the applicability of ethics to problems of policy determination.

REL 502 PROBLEMS OF RELIGION

3 (3-0) f s

Prerequisite: Six term credits in Religion or related fields
Religious beliefs and trends in an age of science; the place and basic functions of the church as it influences and is influenced by the modern world.

PHYSICAL EDUCATION

The college requires all freshmen and sophomores to take physical education unless they are veterans or are excused by the Health Service Physician for physical reasons. Normally, credit in four physical education courses is required for graduation. All physical education students must pass a swimming test.

Activities in the physical education program are divided into two program areas: Prescribed Sports and Controlled Elective Sports. Insofar as facilities and staff permit, every effort is made to direct students into activities which will meet their individual needs. The bases for determining individual needs are as follows:

A medical examination. In case a student has some unusual physical impairment, the college physician will either excuse him from physical education or recommend a special type of activity suitable to the particular need.

A swimming test. All freshmen and transfer students who fail to pass the swimming test are immediately assigned to beginning swimming. Students who pass the test are classified primarily on the basis of their scores in the athletic ability test.

An athletic ability test. Students who score below the 15th percentile are enrolled in Fundamental Sports for two semesters, or until their improvement indicates that they are ready for Basic Sports.

Students who score between the 15th and 75th percentiles are placed in Basic Sports for two semesters, or until their improvement indicates that they are ready for the Controlled Elective Sports Area.

Students who score above the 75th percentile are immediately directed to the Controlled Elective Sports Area.

Normally, all second year students participate in the Controlled Elective Sports Area. This part of the program is controlled to the extent that a student may not receive credit in more than two team sports.

PHYSICAL EDUCATION

A hygiene knowledge test. All freshmen must complete satisfactorily a half semester of hygiene or show adequate proficiency as measured by a Health Knowledge Test given during Orientation Week. Students who are exempted from Hygiene must substitute an activity.

A personal interview with the student.

COURSES

PE 101, 102 **1 (0-2) f s**

PE 201, 202 **1 (0-2) f s**

PE 301, 302, 303, 304 JUNIOR AND SENIOR ELECTIVES **1 (0-2) f s**

Note: Juniors and seniors may elect any activity from the Controlled Elective Sports Area in which they have not previously received credit. Transfer students and veterans who cannot swim will be urged to elect beginning swimming.

ACTIVITIES IN PRESCRIBED SPORTS AREA

COURSES

a. Beginning Swimming:

Offered in the fall semester. A course designed for meeting the college swimming requirement and for preparing the student for intermediate Swimming

b. Fundamental Sports:

Offered in the fall semester. A course designed for the low skilled student where a particular type of activity can be given to meet his special needs.

c. Fundamental Sports:

Offered in the spring semester. (Prerequisite: 101b)

A sequence course designed for the low skilled students who have not qualified for the other areas of the program.

d. Basic Sports:

Offered in the fall semester. A course designed to acquaint the medium skilled student with appropriate activities in both team and individual self-testing items.

e. Basic Sports:

Offered in the spring semester. (Prerequisite: 101d)

A sequence course designed for the medium skilled student who has not qualified for the Controlled Elective Sports Area of the program.

f. Hygiene:

Offered in the second half of the fall semester and in the first half of the spring semester. A course designed to acquaint the student with factual materials related to body care and healthful living.

ACTIVITIES IN CONTROLLED ELECTIVE SPORTS AREA

Team Sports

z. Basketball:

Offered in the second half of the fall semester and in the first half of the spring semester. A course designed to cover the fundamentals of shooting, offensive and defensive strategy, history and rules.

y. Football (Touch):

Offered in the first half of the fall semester. A course designed to cover the fundamentals of offensive and defensive play.

x. Soccer:

Offered in the first half of the fall semester. A course designed to acquaint the student with the fundamental skills and to provide out-of-door activity in a team sport.

w. Softball:

Offered in the second half of the spring semester. A course designed to include the fundamentals, history, and rules of the game.

v. Volleyball:

Offered in the first half of the fall semester and in the entire spring semester. A course designed to include the fundamentals, history, and rules of the game.

Individual Sports

PHYSICAL EDUCATION

u. Badminton:

Offered in the second half of the spring semester. A course designed to give the beginner a thorough knowledge of the basic strokes and a general knowledge of the history, rules, and strategy of the game.

f. Bowling (Duck Pins):

Offered in the second half of the fall semester and in the first half of the spring semester. Fundamentals of the stance, approach, and delivery are taught, together with rules, history, scoring and general theory of spare coverage. Students take turns setting pins. (Fee \$2.50.)

s. Bowling (Ten Pins):

Offered in the second half of the fall semester and in the first half of the spring semester. Fundamentals of ball selection, grip, stance, and delivery are taught, together with rules, history, scoring, and general theory of spare coverage. Students take turns setting pins. (Fee \$2.50.)

r. Boxing:

Offered in the second half of the fall semester. A course designed to acquaint the student with the fundamentals, history, and rules, with special emphasis on defensive techniques.

q. Golf:

Offered in the first half of the fall semester and in the second half of the spring semester. A course designed for the beginner; grip, stance, swing, and use of the various clubs, together with the history and etiquette of play.

p. Gymnastics:

Offered in the second half of the fall semester and in the first half of the spring semester. A course designed to include the fundamentals of simple gymnastic stunts on the parallel bars, slide horse, high bar, ropes, and mats, together with history and rules.

i. Handball:

Offered in both fall and spring semesters. A course designed to include the fundamentals, together with history and rules.

k. Swimming (Intermediate):

Offered in both fall and spring semesters. A course designed to give the student competence in four basic strokes and two dives, preparatory to the Life Saving Program.

j. Swimming (Senior Red Cross Life Saving):

Offered in the spring semester. Prerequisite: Intermediate Swimming or the equivalent. A course designed to qualify students for a Senior Red Cross Life Saving certificate and the possibility of a Water Safety Instructor's rating.

m. Tennis (Beginning):

Offered in the first half of the fall semester and in the second half of the spring semester. A course designed to give the beginner a thorough knowledge of the fundamental strokes and a general knowledge of the history, rules and basic strategy of the game.

n. Tennis (Advanced):

Offered in the first half of the fall semester and in the second half of the spring semester. Prerequisite: Beginning Tennis or its equivalent. Basic strokes are reviewed and the more difficult strokes taught. Emphasis is placed upon strategy during play and upon a more factual knowledge of the game and court etiquette.

i. Wrestling:

Offered in the first half of the fall semester and in the first half of the spring semester. A course designed to give the fundamentals, history and rules.

Varsity Sports

Note: Students may elect in this area with the approval of the coach. Varsity sports are identified with double letters.

aa. Baseball

bb. Basketball

cc. Cross Country Track

dd. Fencing

ee. Football

ff. Golf

gg. Soccer

hh. Swimming

ii. Track

jj. Wrestling

PHYSICS

PHYSICS

COURSES FOR UNDERGRADUATES

PY 201, 202 GENERAL PHYSICS

5 (3-4) f s; f s

Co-requisite MA 201

Required of sophomores in Engineering. A study of General Physics in which an analytical approach to the Principles of Physics is used. Emphasis is placed on problem solution and engineering applications. Recitations, demonstrated lectures, problem drill, and laboratory work are coordinated to give a working knowledge of the basic principles of physics. Py 201, mechanics, sound, and heat; Py 202, electricity, light, and modern physics.

PY 211, 212 GENERAL PHYSICS

4 (3-3) f s; s

Prerequisite: MA 111

Recitations with demonstrations and laboratory work. Py 211, mechanics and heat; Py 212, sound, light, and electricity.

PY 223 ASTRONOMY AND ASTROPHYSICS

Prerequisites: Py 211, MA 112

A general course in astronomy and astrophysics. Introduction to techniques and procedures in astronomical observations. Occasional laboratories; observations with telescope.

PY 311 LIGHT AND COLOR IN INDUSTRY

2 (2-0) f s

Prerequisite: PY 212

Survey of the fundamental principles of light and radiation; photometry, illumination and distribution of light; lighting calculations; fluorescent lighting; the physiological and psychological aspects of light and color; color theories, standardization of color; color contrast, and color harmony. Special emphasis placed on development of color harmony.

PY 322 DESCRIPTIVE METEOROLOGY

2 (2-0) f

Prerequisite: PY 212

Explanation of the weather and associated phenomena at an introductory level. Structure of the atmosphere; instrumentation; heat balance and primary circulation of the atmosphere; air masses, fronts, and waves; tertiary circulations; atmosphere of the lowest 10 meters.

PY 323 APPLIED METEOROLOGY

2 (2-0) s

Prerequisite: PY 322

Technique of application of meteorological data to problems in Engineering, Agriculture, Forestry, etc., where weather is a factor, using principle of expectations as the basis for analysis. Examples from several fields as illustrations of various analysis techniques.

PY 327 LABORATORY TECHNIQUES IN PHOTOGRAPHY

3 (2-3) f

Prerequisite: PY 212 or equivalent

A treatment of the general principles of photography with special applications in the fields of spectrography, micrography, Roentgenology, and nuclear physics.

PY 401, 402 INTERMEDIATE PHYSICS I

4 (3-3) f s

Co-requisite: MA 401

Mechanics (401), heat, and sound (402) on an intermediate level. Intermediate Physics I, together with Intermediate Physics II (403, 404), constitutes an integrated study of classical physics at the next level above general sophomore physics. Lectures, problems, and recitations, and one laboratory each week.

PY 403, 404 INTERMEDIATE PHYSICS II

4 (3-3) f s

Co-requisite: MA 401

Electricity and magnetism (403), and optics (404) on an intermediate level. Intermediate Physics II, together with Intermediate Physics I, constitutes an integrated study of classical physics at the next level above general sophomore physics. Lectures, problems, recitations, and one laboratory each week.

PY 407 INTRODUCTION TO MODERN PHYSICS

3 (3-0) f s

Prerequisites: PY 202, MA 202

A brief survey of the important developments in atomic and nuclear physics. Topics covered include: atomic and molecular structure, determination of the mass and charge of ions, origin of spectra, ion accelerators, nuclear reactions, and cosmic rays. Particular attention is paid to the practical applications of these developments.

PY 410 NUCLEAR PHYSICS I

4 (3-3) f s

Prerequisite: PY 407

An introductory treatment of the properties of nuclear particles and their interactions with matter. Consideration is given to natural and artificial radioactivity, nuclear reactions, fission, and the structure of simple nuclei. A three-hour laboratory is included.

PY 419 INTRODUCTION TO NUCLEAR ENGINEERING

2 (2-0) f

Prerequisite: PY 410

A survey of the engineering applications of nuclear energy. The principles and practices of isotope separation, production of plutonium, and nuclear reactor operation are studied along with the peace-time uses of products and by-products of nuclear reactors. Major engineering problems involved in each phase of the study are defined and the special methods of approach indicated

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PY 510 NUCLEAR PHYSICS II

Prerequisite: PY 410

A continuation of Physics 410 with particular emphasis on neutron physics, nuclear energy levels, meson theory, nuclear resonance, atomic and molecular magnetism, and cosmic radiation. A three-hour laboratory is included.

PY 511 *nuc. phy. II Lab* PY 518 RADIATION HAZARD AND PROTECTION

Prerequisite: PY 410

The hazards from external exposure to ionizing radiation are evaluated. The dosages resulting from the ingestion of radioactive materials are computed. The precautionary methods used in radioactive work are presented. Selected biological effects of ionizing radiation are studied.

PY 520 PHYSICAL TECHNOLOGY IN RADIOACTIVITY

Prerequisite: PY 410

Emphasis in this course is on laboratory practices in detecting, handling, and quantitatively measuring radioactive samples. The preparation of samples for radioactivity measurements and the calculation methods used in analyzing such data are summarized. At least three hours of laboratory practice per week.

PY 526 IONIZATION PHENOMENA AND ELECTRON OPTICS

Prerequisites PY 404, 410

Methods of producing ions, and the interaction of ions with electric and magnetic fields are discussed, together with a brief survey of the present status of electron optics.

PY 530 ELEMENTARY NUCLEAR REACTOR THEORY

Prerequisites: PY 410! MA 511 or 532

A lecture course in the principles of chain reactors. Slowing down of neutrons, neutron diffusion equations, space distribution of neutrons, conditions for criticality, reactor dimensions for simple geometries, elementary group theories, and time dependent reactor behavior.

PY 531 NUCLEAR REACTOR LABORATORY

Co-requisite: PY 530

Observations on and measurements on the behavior of the nuclear reactor, and correlation with reactor theory. Experiments with apparatus involving the motion and detection of neutrons. Foil measurements of neutron flux. Irradiations in the reactor of samples to produce radioisotopes.

PY 541, 542 *Elem. Reactor anal.* ADVANCED EXPERIMENTS IN PHYSICS

Prerequisites: PY 202, MA 202

Covers the techniques and theory of selected experiments in mechanics, heat, sound, light, or electricity. The treatment and interpretation of data are stressed

PY 544 VIBRATION AND WAVE MOTION

Prerequisites: PY 202, MA 401

The dynamics of vibratory and oscillatory motion. Analogies in mechanical, electrical and acoustical vibrating systems. Analysis of wave motion and propagation in different media.

PY 545 APPLIED ACOUSTICS

Prerequisite: PY 544

The dynamical theory of sound. Sources of sound, measurement of sound intensity, measurement of frequency, acoustical impedance and transmission of sound, sound filters and resonators, acoustics of speech and hearing, reception and reproduction of sound, acoustics of buildings.

PY 551 INTRODUCTION TO X-RAYS

Prerequisites: PY 202, MA 202

Origin, production, absorption, single crystal diffraction, and powder diffraction are studied. These basic topics are then applied to detection of defects in welds and castings and to the determination of crystal structure and particle and fiber size. (Two 1-hour lectures and one 3-hour lab. per week.)

PHYSICS

PY 552 INTRODUCTION TO THE STRUCTURE OF SOLIDS: CRYSTALLOGRAPHY

3 (3-0) s

Prerequisites: PY 202, MA 202; PY 551 recommended

Elementary consideration of amorphous and crystalline solids, metal conductors, and semi-conductors. Some optical crystallography is included. (Three 1-hour lectures per week.)

COURSES FOR GRADUATES ONLY

PY 601, 602 ADVANCED GENERAL PHYSICS

3 (3-0) f s

Prerequisites: PY 402, MA 511

Mathematical and theoretical approach to relationships between the various branches of physics, with applications to mechanical, electrical, optical, thermal, and vibratory problems. Generalization of underlying physical principles.

PY 610 ADVANCED NUCLEAR PHYSICS

3 (3-0) f

Prerequisite: PY 410; PY 611, except by permission

Current hypotheses of nuclear structure and reactions, including fission, theories of alpha emission, deuteron binding, neutron-proton scattering, the compound nucleus, and beta-decay. The use of neutrons in present day nuclear research is emphasized.

PY 611, 612 QUANTUM MECHANICS

3 (3-0) f s

Prerequisites: PY 407, MA 532

Theory of quantum mechanics with applications to atomic and molecular structure, scattering phenomena, and the interaction of radiation with matter.

PY 619 HETEROGENEOUS REACTORS DESIGN

3 (3-0) f s

Prerequisite: PY 530

Engineering design of heterogeneous power reactors. Theory of resonance capture, thermal utilization, and flux distributions in multi-region systems. Transient and steady state poison effects. Heat transfer limitations in reactors. Evaluation of materials of construction, coolants and fuels.

PY 621 KINETIC THEORY OF GASES

3 (3-0) f

Prerequisites: PY 202, MA 511

The theory of molecular motion, including the velocity and density distribution functions, the phenomena of viscosity, heat conduction and diffusion; equations of state; fluctuations.

PY 622 STATISTICAL MECHANICS

3 (3-0) s

Prerequisites: PY 202, MA 511; PY 621, except by permission

A treatment of statistical mechanics from both the quantum and classical point of view. Development of theories from the thermodynamical standpoint and their practical application.

PY 630 HOMOGENEOUS REACTOR DESIGN

3 (3-0) f s

Prerequisite: PY 530

Calculations of critical loading of homogeneous power reactors, flux distribution, control rod values, theory of two and multigroup methods, and evaluation of group constants. Uses and limitations of age and diffusion theory. Transport theory of foil measurements. The time-dependent behavior of a reactor with negative temperature coefficient.

PY 621, 632 ATOMIC AND MOLECULAR SPECTRA

3 (3-0) f s

Prerequisite: PY 404

Co-requisites: Py 611, MA 532

Atomic models and coupling schemes. Multiplet series, Zeeman, Paschen-Back, and Stark effects. Hyperfine structure and complex spectra. Spectra of polyatomic molecules. Infrared and Raman Spectroscopy, with applications to various chemical problems.

PY 661, 662 THE SOLID STATE

3 (3-0) f s

Prerequisite: PY 552

The electron theory of conduction, electrical and thermal conduction in solids, and surface phenomena, with applications to physical behavior and usage of solids. (Offered in 1954-55 and alternate years)

PY 670 SEMINAR

1 (0-3) f s

Literature surveys, written and oral presentation of papers on special topics.

PY 690 RESEARCH

1-6 credits s

Graduate students sufficiently prepared may undertake research in some selected field of Physics.

— PLANT PATHOLOGY

COURSES FOR UNDERGRADUATES

PP 315 PLANT DISEASES

Prerequisites: BO 101, 102

3 (2-3) f

The nature and symptoms of disease in plants and the characteristics of important plant pathogenic nematodes, viruses, bacteria, and fungi are studied. An understanding of the important concepts and methods of disease control is developed, based on a knowledge of major types of plant diseases.

Mr. Kelman

PP 318 DISEASES OF FOREST TREES

Prerequisites: BO 101, 102

3 (2-3) s

The nature and symptoms of major types of tree diseases and the important characteristics of their causal agents are studied. Emphasis is placed on the influence of environmental factors on disease development as well as the basic principles and methods of control.

Mr. Kelman

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PP 503 DIAGNOSIS OF PLANT DISEASES

3 (1-4) s

Prerequisites: One advanced course in Plant Pathology and permission of instructor
A study of techniques used in plant disease diagnosis with emphasis on diagnostic value of signs and symptoms for certain types of diseases. Consideration will be given to major sources of descriptive information on plant pathogens and the use of keys for the identification of fungi.
(Offered in 1956 and alternate years)

Mr. Hebert

PP 504 PLANT PARASITIC NEMATODES

Prerequisites: PP 315

2 (1-3) f

A study of morphology, anatomy, physiology and taxonomy of plant parasitic nematodes. Methods of isolating nematodes from soil and plant parts and other laboratory techniques used in the study and identification of nematodes will be considered.

Mr. Sasser

PP 515 DISEASES OF FIELD CROPS

Prerequisites: PP 315

3 (2-2) s

An advanced study of the more important diseases of North Carolina field crops such as cotton, corn, tobacco, soybeans, alfalfa, clover grasses and small grains with major emphasis on identification, cause and control.

Mr. Lucas

PP 516 DISEASES OF FRUIT CROPS

Prerequisite: PP 315

3 (2-2) s

Study of causes, symptoms, epiphytology, and principles of control of major diseases of pome, stone, nut, and berry crops.
(Offered in 1955-56) and alternate years)

Mr. Clayton

PP 517 DISEASES OF VEGETABLE CROPS

Prerequisite: PP 315

3 (2-2) s

Studies designed to provide the student with a working knowledge of the etiology, symptomatology, epiphytology, and control of major vegetable crop diseases.
(Offered in 1956-57 and alternate years)

Mr. Winstead

COURSES FOR GRADUATES ONLY

PP 601 PHYTOPATHOLOGY I

Prerequisites: PP 315 and permission of the instructor

4 (1-6) f

A study of the principles of phytopathological research. The course is designed to apply the classical scientific method to disease investigation. Exercises will include appraising disease problems, reviewing literature, laboratory and greenhouse experiments and the evaluation and presentation of data.

Mr. Nielsen

PP 602 PHYTOPATHOLOGY II

Prerequisites: PP 315 and permission of the instructor

4 (2-6) s

The basic concepts of the etiology, pathology, epiphytology and control of plant diseases.
(Offered in 1956-57 and alternate years)

Mr. Nusbaum

POULTRY

PP 611 NEMATODE DISEASES OF PLANTS

3 (1-4) s

Prerequisites: PP 504

A study of plant diseases caused by nematodes. Special consideration will be given to host-parasite relationships, host ranges, and life cycles of the more important economic species. Principles and methods of control will be considered.

Mr. Sasser

PP 615 RESEARCH IN PLANT PATHOLOGY

Credits by arrangement

Prerequisites: Graduate standing and consent of adviser

Original research in connection with a thesis problem in Plant Pathology.

Staff

PP 617 SPECIAL PROBLEMS IN PLANT PATHOLOGY

Credits by arrangement

Prerequisites: Graduate standing and consent of the instructor

Original research on special problems in Plant Pathology not related to a thesis problem but designed to provide experience and training in research.

Staff

PP 625 SEMINAR IN PLANT PATHOLOGY

1 (1-0) f s

Prerequisite: Consent of seminar chairman

Discussion of phytopathological topics selected and assigned by seminar chairman.

Staff

POLITICAL SCIENCE — — — — —

SEE HISTORY AND POLITICAL SCIENCE

POULTRY — — — — —

COURSES FOR UNDERGRADUATES

PO 201 CHICKEN AND TURKEY PRODUCTION

4 (3-3) f s

Prerequisites: Required of majors in Poultry Science

Elective for others

Principles of broiler, market egg, hatching egg, and turkey production. Classes, breeds and varieties identification of chickens and turkeys. Breeding, incubation, raising, housing, feeding, disease and parasite control, marketing of chickens, eggs and turkeys.

Messrs. Brown, Martin

PO 301 POULTRY JUDGING AND PROCESSING

4 (2-6) f

Prerequisite: Required of majors in Poultry Science

Elective for others with permission of instructor

Judging of poultry for egg production, breeding, market qualities; judging dressed market birds and eggs; processing, refrigeration, storage of poultry; candling, grading, processing and storage of eggs; preparation for marketing eggs and poultry.

Messrs. Brown, Bumgardner

PO 302 ADVANCED POULTRY JUDGING AND PROCESSING

3 (0-6) f

Prerequisites: PO 301

Elective for majors in Poultry Science and for others with permission of instructor

Course consists only of laboratory work with Poultry Judging and Processing class (PO 301) for further practice and proficiency in poultry and egg judging and processing.

Messrs. Brown, Bumgardner

PO 303 BIOLOGY OF THE FOWL

3 (1-6) s

Prerequisites: Required of majors in Poultry Science

Elective for others with permission of instructor

A foundation course for juniors and senior poultry courses. Macroscopic embryology of the chick. Dissection and study of the gross anatomy of the chicken and turkey. Physiology of the tissues and organs. Endocrine control of reproduction. Formation and structure of the egg.

Mr. Bumgardner

PO 401 POULTRY DISEASES

4 (3-3) s

Prerequisites: Required of majors in Poultry Science

Elective for others with permission of instructor

The major infectious, non-infectious and parasitic diseases of poultry are studied with respect to economic importance, etiology, susceptibility, dissemination, symptoms, lesions, and diagnostic methods. Emphasis is placed upon practices necessary for the prevention, control and treatment of each disease.

Mr. Barber

PO 402 COMMERCIAL POULTRY FARM AND HATCHERY MANAGEMENT 4 (3-2) s

Prerequisites: Required of majors in Poultry Science

Elective for others with permission of instructor

Principles of incubation of chicken and turkey eggs; hatchery management, organization and development of plans for the operation and maintenance of a commercial poultry farm for meat and egg production; study of the types of buildings, equipment, and methods of management currently employed by successful poultry men in North Carolina. Problem.

Mr. Brown

PO 403 POULTRY SEMINAR

1 (1-0) f s

Prerequisite: Required of seniors in Poultry Science

Current topics and problems relating to poultry science and to the poultry industry are assigned for oral report and discussion. Two semesters.

Staff

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PO 520 POULTRY BREEDING

3 (2-3) f

Prerequisites: GN 411

Required of majors in Poultry Science

Elective for others with permission of instructor

Application of genetic principles to poultry breeding, considering physical traits and physiological characteristics—feather patterns, egg production, hatchability, growth, body conformation, and utility.

Messrs. Glazener, Martin

PO 521 POULTRY NUTRITION

3 (2-3) f

Prerequisites: Required of majors in Poultry Science

Elective for others with permission of instructor

A study of proteins, carbohydrates, fats, minerals and vitamins required for growth, egg production and reproduction in the chicken and turkey. Symptoms and lesions induced by nutritional deficiencies. Compounding different types of poultry mashes and methods of feeding these mashes. The production of certain vitamin and mineral deficiencies in chicks for observation and examination.

Mr. Kelly

PO 522 ENDOCRINOLOGY OF THE FOWL

3 (2-3) f

Prerequisite: Permission of instructor

The endocrine system is studied with respect to its physiological importance in such intricate processes as metabolism, growth, and reproduction. Emphasis is placed upon this system for the fowl, but mammalian examples are also used to illustrate basic concepts of the science. The interests of the students will be considered in the selection of illustrative material.

Mr. Garren

COURSES FOR GRADUATES ONLY

Graduate courses may not be offered if registration for the course is too low or if the faculty or facilities become unavailable.

PO 601 ADVANCED POULTRY BREEDING

3 (3-0) arrange

Prerequisites: Graduate standing; permission of instructor

Study of lethal, skeletal, and feather variations. Linkage and chromosome mapping of the fowl. Theory and contemporary ideas concerning breeding for meat and egg production in the fowl.

Mr. Glazener

PO 602 ADVANCED POULTRY NUTRITION

3 (0-6) arrange

Prerequisites: Graduate standing, permission of instructor

Students taking this course will conduct a research problem in poultry nutrition. This problem will involve the designing and carrying out of microbiological and chick experiments. The students will obtain practice in correlating results obtained in microbiological and chick assays.

Mr. Hill

PO 603 ADVANCED POULTRY HEMATOLOGY

3 (0-6) arrange

Prerequisites: Graduate standing; permission of instructor

Study of the hematopoietic system and blood formation in the chicken. The erythrocyte, the leucocyte, the thrombocyte, the bonemarrow cells and their respective systems. Technics of blood and marrow examination. Quantitative and qualitative variations in the cells and their constituents. Mechanisms producing such variations, causes and effects.

Mr. Cook

PSYCHOLOGY

PO 604 ADVANCED POULTRY DISEASES

3 (0-6) arrange

Prerequisites: ZO 452, 545

Graduate standing; permission of instructor
Fundamentals of general pathology. Special pathology of infectious and nutritional diseases of the fowl. Study and interpretations of changes in the macroscopic and microscopic structures of the diseased tissues and organs of the fowl occurring under field and experimental conditions. The role of hematology, immunology and endocrinology in the diagnosis and prevention of poultry diseases.

Staff

PO 611 POULTRY RESEARCH

1-6 (arrange) f s

Credits: A maximum of six is allowed toward a Master's degree.

Prerequisite: Graduate Standing

Appraisal of present research, critical study of some particular problem involving original investigation. Problems in poultry breeding, nutrition, disease, endocrinology, hematology or microbiology.

Staff

PO 612 RESEARCH SEMINAR

1 (1-0) f & s

Credits: A maximum of two credits is allowed toward a Master's degree.

Prerequisite: Graduate standing

Discussion of current topics and problems to research in Poultry Science.

Staff

PO 613 SPECIAL PROBLEMS IN POULTRY SCIENCE

1-6 (arrange) f s

Prerequisites: Graduate standing and permission of the instructor

Specific problems of study are assigned in various phases of poultry science.

Staff

PSYCHOLOGY — — — — —

COURSES FOR UNDERGRADUATES

PSY 200 INTRODUCTION TO PSYCHOLOGY

3 (3-0) f s

A study of the general characteristics and development of human behavior, emphasizing the problems of motivation, emotion, learning, and thinking.

Staff

PSY 201 ELEMENTARY EXPERIMENTAL PSYCHOLOGY

3 (2-3) f

Prerequisite: PSY 200

Introduction to experimental psychology. Two lectures and one laboratory period per week.

Mr. Barkley

PSY 302 PSYCHOLOGY OF PERSONALITY AND ADJUSTMENT

3 (3-0) f

Prerequisite: PSY 200

A study of the factors involved in the development of the normal personality, emphasizing the principal factors controlling human behavior and their relationship to adjustment mechanisms.

Messrs. Caffey, Corter

PSY 304 EDUCATIONAL PSYCHOLOGY

3 (3-0) f

PSY 200 recommended as an introductory course.

Applications of psychology to education; problems of learning, motivation, interests; the measurement of educational efficiency; mental hygiene.

Messrs. Johnson, Barkley

PSY 307 GENERAL APPLIED PSYCHOLOGY

2 (2-0) s

Prerequisite: PSY 200

A study of the application of principles of psychology in medicine, law, advertising, selling, vocational guidance, the arts, and athletics.

Messrs. Barkley, Caffey

PSY 337 INDUSTRIAL PSYCHOLOGY I

3 (3-0) f s

Prerequisite: PSY 200

The application of psychological principles to the problems of modern industry; methods of work, monotony, fatigue, accidents, illumination and morale of workers.

Messrs. Milton, Solem

COURSES FOR ADVANCED UNDERGRADUATES

PSY 438 INDUSTRIAL PSYCHOLOGY II

3 (3-0) s

Prerequisite: PSY 200

The application of psychological principles to the problems of modern industry; selection, placement, and training of workers.

Mr. Solem

PSYCHOLOGY

PSY 441 HUMAN FACTORS IN EQUIPMENT DESIGN

3 (3-0) s

Prerequisite: PSY 200

Human factors in the design of machines and other equipment. Sensing, computing, and controlling as human functions which have been extended to machines. Human characteristics which affect equipment design. A "systems analysis" approach to man-machine problems, in which man and machine are considered as elements in a larger unit, performance of which is considered as a whole.

Mr. Kelley

PSY 464 VISUAL PERCEPTION FOR DESIGNERS

3 (3-0) f

Prerequisite: PSY 200

The nature of the seeing process and its relation to architecture, industrial arts, and to the industrial, engineering, and textile design fields. Topics include the physical basis of sight, perception of color and form, vision and illumination, psychological factors in visual design, and a unit of training planned to improve the student's ability to perceive visual form.

Mr. Kelley

PSY 475 CHILD PSYCHOLOGY

3 (3-0)

Prerequisite: PSY 200 or 304

Course offered during Summer session only

The development of the individual child of the elementary school age will be the inclusive subject of study in this course. Emphasis will be placed upon the intellectual, social, emotional, and personality development of the child. Physical growth will be emphasized as necessary to an understanding of the psychological development of the pupil.

Mr. Barkley

PSY 476 PSYCHOLOGY OF ADOLESCENCE

2 (2-0) s

Prerequisite: PSY 200 or 304

Mental growth, social development, and interests of adolescent boys and girls.

Messrs. Johnson, Barkley

PSY 490 SOCIAL PSYCHOLOGY

3 (3-0) s

Prerequisite: PSY 200

Social applications of psychology: social stimulation, response, and attitudes.

Mr. Barkley

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PSY 501 INTERMEDIATE APPLIED EXPERIMENTAL PSYCHOLOGY

3 (2-3) f or s

Prerequisite: PSY 200 and three additional hours in Psychology

Experimental study of problems in the major areas of general and theoretical psychology which have special significance in educational, industrial, and applied social psychology. Emphasis will be placed upon description of problems, study of methods, design of experiments, and procedures for the analysis and presentation of data. Two lectures and one laboratory period per week.

Mr. Barkley

PSY 504 ADVANCED EDUCATIONAL PSYCHOLOGY

3 (3-0) s

Prerequisite: Four hours in Psychology

Course offered in alternate years

An advanced course giving a critical appraisal and a consideration of the practical applications for vocational education of modern psychological findings.

Messrs. Johnson, Barkley

PSY 511 ADVANCED SOCIAL PSYCHOLOGY

3 (3-0) s

Prerequisites: PSY 200 and three additional hours in Psychology

Course offered in alternate years

A study of social relationships and their psychological bases; emphasis on those aspects of behavior determined by personal interactions; work will involve analysis of representative research studies, and doing individual projects in industrial and rural areas.

Mr. Barkley

PSY 530 ABNORMAL PSYCHOLOGY

3 (3-0) s

Prerequisites: PSY 200, 302

A study of the causes, symptomatic behavior, and treatment of the major personality disturbances, with emphasis placed on preventive mental hygiene methods.

Mr. Corter

PSY 535 TESTS AND MEASUREMENTS

3 (3-0) f

Prerequisite: Three hours in Psychology

A study of available tests, with emphasis on proper selection and use of testing instruments, also a study of statistical procedures needed in the proper use of tests, including measures of central tendency, variability and correlation.

Mr. Johnson

PSYCHOLOGY

PSY 550 MENTAL HYGIENE IN TEACHING

3 (3-0) f

Prerequisite: Four hours in Psychology

A survey of mental hygiene principles applicable to teachers and pupils; practical problems in prevention and treatment of psychological problems in schools; case studies and research.

Mr. Corter

PSY 560 TEST CONSTRUCTION

3 (3-0) f

Prerequisites: PSY 200 and three additional hours in Psychology

Course offered in alternate years

Analyzes the steps necessary for the development of tests, including job analysis, test development of different types of items, item analysis, establishment of norms and determination of reliability. Emphasis placed on construction of mechanical tests with application to industry. Students will be given opportunity for construction of tests.

PSY 561 TES CONSTRUCTION

3 (3-0) s

Prerequisite: PSY 560

Course offered in alternate years

Emphasis placed on criterion analysis; rating scale methods, validation procedures. Attention will be directed to the validation of tests constructed in Psychology 560.

PSY 565 INDUSTRIAL MANAGEMENT PSYCHOLOGY

3 (3-0) f or s

Prerequisites: PSY 200 and three additional hours in Psychology

This course is designed for management personnel in industry and graduate students in psychology who wish to familiarize themselves with industrial problems. Emphasis will be placed on principles and methods for obtaining better utilization of employee resources of ideas, attitudes and motivations.

Mr. Solem

PSY 570 INTELLIGENCE: THEORY AND MEASUREMENT I

3 (3-0) f

Prerequisites: PSY 200 and three additional hours in Psychology

An introduction to individual intelligence testing, theoretical background of intelligence testing, clinical introduction to intelligence testing, case studies and research.

PSY 571 INTELLIGENCE: THEORY AND MEASUREMENT II

3 (3-0) s

Prerequisite: PSY 570

A practicum in individual adult intelligence testing with emphasis on the Wechsler-Bellevue, other performance tests of intelligence, report writing, and case studies.

Mr. Corter

PSY 572 INTELLIGENCE: THEORY AND MEASUREMENT III

3 (3-0)

Prerequisite: PSY 570

Course offered during Summer session only

A practicum in individual intelligence testing of infants, children and adults with emphasis on the Stanford-Binet, other tests, report writing, case studies, and consultation with teachers.

Mr. Corter

PSY 576 ADVANCED ADOLESCENT PSYCHOLOGY

3 (3-0) s

Prerequisite: PSY 476

An advanced course in psychology of adolescence in which the student considers the original works of leaders in this field, thus laying the foundation for a critical appreciation of the new studies that are constantly appearing.

Mr. Johnson

PSY 578 INDIVIDUAL DIFFERENCES

3 (3-0) f

Prerequisite: Four hours in Psychology

Nature, extent, and practical implications of individual differences and individual variation.

Mr. Barkley

COURSES FOR GRADUATES ONLY

PSY 604 APPLIED EXPERIMENTAL PSYCHOLOGY

3 (2-3) f or s

Prerequisite: Eight hours in Psychology

Experimental analysis of problems of sensation, perception, learning, thinking, emotions, fatigue, and neuro-muscular reactions. Emphasis upon methods of experimental control, design of experimental apparatus, and accuracy of reports as these are related to laboratory investigations in the fields of applied psychology.

Mr. Barkley

PSY 607 ADVANCED INDUSTRIAL PSYCHOLOGY I

3 (3-0) f

Prerequisite: Eight hours in Psychology

Discussion, analysis and evaluation of psychological problems in industry; training, selection and placement of the worker. Emphasis on current research and study of psychological programs operating in different industries.

Messrs. McGehee, Solem

RURAL SOCIOLOGY

PSY 608 ADVANCED INDUSTRIAL PSYCHOLOGY II

3 (3-0) s

Prerequisite: Eight hours in Psychology

Discussion, analysis and evaluation of psychological problems in industry; morale, attitudes, fatigue, accidents, and maladjusted workers. Emphasis on current research and study of psychological programs operating in different industries.

Messrs. McGehee, Solem

PSY 609 PSYCHOLOGICAL CLINIC PRACTICUM

Maximum 3 hours f s

Prerequisite: Eight hours in Psychology

Clinical participation in interviewing, counseling, psychotherapy and administration of psychological tests. Practicum to be concerned with college students, adults and children.

Mr. Corter

PSY 610 APPLIED IMPLICATIONS OF THEORIES OF LEARNING

3 (3-0) s

Prerequisite: Eight hours in Psychology

Course offered in alternate years

A study of theories of learning with emphasis upon applications of the principles of learning in industrial and school situations.

Messrs. Barkley, Johnson

PSY 612 SEMINAR IN INDUSTRIAL PSYCHOLOGY

3 (3-0) s

Prerequisite: Eight hours in Psychology

Scientific articles, analysis of experimental designs in industrial psychology, and study of special problems of interest to graduate students in Industrial Psychology.

Staff

PSY 613 RESEARCH IN PSYCHOLOGY

Credits by arrangement

Prerequisite: Eight hours in Psychology

Individual or group research problems; a maximum of six credits is allowed toward the Master's degree.

Staff

RURAL SOCIOLOGY

COURSES FOR UNDERGRADUATES*

RS 204 NORTH CAROLINA RURAL LIFE

2 (2-0) f s

Introduction to the specific patterns of rural living in North Carolina; structure and function of the groups in which North Carolina rural people participate; major social institutions and their related problems; and, organized efforts to improve community life in the state.

Staff

RS 301 SOCIOLOGY OF RURAL LIFE

3 (3-0) f s

Prerequisite: Completion of the freshman year

A systematic sociological analysis of the characteristics, institutions and problems of rural life. Part I is a brief description of the basic concepts, the theoretical framework and the method of analysis of institutions and problems. Part II consists of systematic analyses of the major social institutions and their respective problems. Part III portrays the role of the community as an area of institutional functioning and societal integration.

Staff

RS 321 INTRODUCTION TO SOCIAL RESEARCH

2 (2-0) f s

Prerequisite: RS 301

Designed to give the student a basic understanding of the methods of sociological research. Reviews the scientific method and its application to the design of social research including the collection, analysis, and interpretation of social data. Appropriate ways of presenting the findings and of making the greatest use of the data are presented. Critical and objective thinking are stressed throughout the course.

Messrs. Lowery and Mayo

RS 322 INTRODUCTION TO RURAL SOCIAL WORK

3 (3-0) s

Prerequisite: RS 301 or permission of the instructor

Constructed to acquaint the preprofessional student with the subject matter of social work as well as its related professional fields. Attention is given to three major areas: (1) case work in various settings; (2) group work, and (3) community organization. Public and private agencies which employ persons trained in social work are studied.

Mr. Mayo

RS 441 RURAL SOCIAL PATHOLOGY

3 (3-0) f

Prerequisite: RS 301 or permission of the instructor

A study of major social problems in modern society: physical and mental health, family instability, crime and penology, and minority group problems. A framework for analysis and understanding is presented and stressed throughout including a positive approach for prevention.

Mr. Mayo

RURAL SOCIOLOGY

RS 442 RURAL SOCIAL STRUCTURE

3 (3-0) s

Prerequisite: RS 301 or permission of the instructor

Social structure is viewed in its two major dimensions: (1) vertically through the concepts of social stratification; and (2) horizontally as a set of basic social institutions interacting by means of a system of concrete social organizations. Particular attention is given to the place of the rural segment in the total social system. The bases of social cohesion which permit diversity within a functioning whole are examined.

Mr. Green

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES*

RS 511 RURAL POPULATION PROBLEMS

3 (3-0) f

Prerequisite: RS 301 or permission of the instructor

A study of population growth, rates of change, and distribution. Considerable attention is given to the functional roles of population, i. e., age, sex, race, residence, occupation, marital status, and education. The dynamic aspects of population are stressed: fertility, mortality, and migration. Population policy is analyzed in relation to national and international goals. A world view is stressed throughout.

Mr. Mayo

RS 512 RURAL FAMILY LIVING

3 (3-0) s

Prerequisite: RS 301 or permission of the instructor

Values, patterns, and levels of rural family living. Differentials and factors related thereto in the world, the nation, and North Carolina. Analysis of selected problems, programs, policies, and methods of study.

Mr. Hamilton

RS 513 COMMUNITY ORGANIZATION

3 (3-0) s

Prerequisite: RS 301 or permission of the instructor

Community organization is viewed as a process of bringing about desirable changes in community life. Community needs and resources available to meet these needs are studied. Democratic processes in community action and principles of community organization are stressed along with techniques and procedures. The roles of leaders, both lay and professional, in community development are analyzed.

Mr. Mayo

RS 523 LAND TENURE SYSTEMS

3 (3-0) f

Prerequisite: Permission of the instructor

A systematic sociological analysis of the major agricultural land tenure systems of the world with major emphasis on the problems of family farm ownership and tenancy in the United States.

Mr. Hamilton

RS 534 (Same as HI 534) FARMERS' MOVEMENTS

3 (3-0) s

Prerequisite: Permission of the instructor

A history of agricultural organizations and movements in the United States and Canada principally since 1865, emphasizing the Grange, the Farmers' Alliance, the Populist revolt, the Farmers' Union, the Farm Bureau, the Equity societies, the Non-partisan League, cooperative marketing, government programs, and present problems.

Mr. Noblin

RS 541 SOCIAL AGENCIES AND PROGRAMS

3 (3-0) f

Prerequisite: Permission of the instructor

Study of social agencies and programs and their implementation through specific organizations in dynamic relation with the people whom they serve. Consideration is given to the relation of these agencies and programs to community structure and forces in rural society; coordination of the several types of agencies and programs; professional leadership in the local community; and, problems of stimulating local leadership and participation.

Mr. Mayo

COURSES FOR GRADUATES ONLY*

RS 611 RESEARCH METHODS IN SOCIOLOGY

3 (3-0) f

Prerequisite: Permission of the instructor

Designed to give the student a mature insight into the nature of scientific research in sociology. Assesses the nature and purpose of research designs, the interrelationship of theory and research, the use of selected techniques and their relation to research designs, and the use of modern tabulation equipment in research.

Mr. Mayo

*Additional courses, suitable for rural sociology majors and graduate students, are listed below in the offerings of the Department of Sociology and Anthropology. Other sociology courses especially suitable for advanced students and graduates are offered by the Department of Sociology and Anthropology of the University at Chapel Hill.

RURAL SOCIOLOGY

RS 621 RURAL SOCIAL PSYCHOLOGY

3 (3-0) f

Prerequisite: Permission of the instructor

Treats the genetic development of the rural personality and the interrelationship of the individual and the rural society. Studies the social psychological factors related to rural leadership, morale, social organization, and social change, and examines the attitudes and opinions of rural people on current local and national issues.

Mr. Lowry

RS 631 POPULATION ANALYSIS

3 (3-0) s

Prerequisite: Permission of the instructor

Methods of describing, analyzing, and presenting data on human populations: distribution, characteristics, natural increase, migration, and trends in relation to resources.

Mr. Hamilton

RS 632 RURAL FAMILY

3 (3-0) f

Prerequisite: Permission of the instructor

Emphasis is placed on the development of an adequate sociological frame of reference for family analysis; on discovering both the uniquely-cultural and common-human aspects of the family by means of cross-cultural comparisons; on historical explanations for variability in American families with especial concern for the rural family; and, on analyzing patterns of family stability and effectiveness.

Mr. Green

RS 633 THE RURAL COMMUNITY

3 (3-0) s

Prerequisite: Permission of the instructor

The rural community is viewed in sociological perspective as a functioning entity. A method of analysis is presented and applied to eight "dimensions," with emphasis on the unique types of understanding to be derived from measuring each dimension. Finally, the effect of change on community integration and development is analyzed.

Mr. Mayo

RS 641 STATISTICS IN SOCIOLOGY

3 (3-0) f

Prerequisite: ST 513

The application of statistical methods in sociological research. Emphasis on selecting appropriate models, instruments, and techniques for the more frequently encountered problems and forms of data.

Mr. Hamilton

RS 642 RESEARCH IN RURAL SOCIOLOGY

Credits by arrangement

Prerequisite: Permission of chairman of graduate study committee. (Maximum of six credits)

Planning and execution of research, and preparation of manuscript under supervision of graduate committee.

Staff

RS 652 COMPARATIVE RURAL SOCIETIES

3 (3-0) f

Prerequisites: Permission of the instructor

Sociological analysis of rural societies around the world with particular reference to North and South America. Special emphasis is given to cultural and physical setting, population comparison, levels of living, relationship of the people to the land, structure and function of the major institutions, and forces making for change.

Mr. Mayo

RS 653 THEORY AND DEVELOPMENT OF RURAL SOCIOLOGY

3 (3-0) s

Prerequisite: Permission of the instructor

Required of all masters and doctoral candidates in Rural Sociology and is recommended for all graduate minors. Designed to meet two objectives: (1) to introduce the student to the study of current sociological theory, and (2) to survey events and trends in the historical development of rural sociology.

Mr. Green

RS 671 SEMINAR

Credits by arrangement

Appraisal of current literature; presentation of research papers by students; progress reports on departmental research; review of developing research methods and plans; reports from scientific meetings and conferences; other professional matters. (A maximum of three credits is allowed toward the master's degree, and six credits toward the doctorate.)

Staff

SOCIOLOGY

SOCIAL STUDIES — — — — —

SS 301, 302 CONTEMPORARY CIVILIZATION

3 (3-0) f s

Prerequisites: For engineering students ENG 205, HI 205, EC 205; for others, permission of the Department

An examination of the major concepts, methods and values that characterize modern thought in the fields of physical science, the humanities and the social sciences. The course utilizes the student's previous training, plus materials from the history and philosophy of science and the history of technology to demonstrate the essential interrelatedness of scientific, social, and aesthetic activity.

SS 491, 492 CONTEMPORARY ISSUES

3 (3-0) f s

Prerequisites: For engineering students, SS 301, 302; for others, permission of the Department

This course deals with concrete current problems as they arise from day to day in the world of public affairs. These problems are studied and discussed in the context of a search for a more realistic definition of the limits of freedom and authority. Text materials are books, magazines and newspapers.

SOCIOLOGY AND ANTHROPOLOGY — — — — —

COURSES FOR UNDERGRADUATES

SOC 101, 102 PEOPLES OF THE WORLD

2 (2-0) f s

This course seeks to develop insights of wide applicability concerning human relationships and the adjustment of man to his geographical, social, and cultural environments. The course is designed to demonstrate interrelationships among diverse factors affecting human behavior in all societies. The first semester deals largely with cultures of the Western world; the second semester, with cultures of the East. Each semester is independent.

SOC 111, 112 THE AMERICAN WAY OF LIFE

2 (2-0) f s

Designed to introduce foreign students to the culture of the United States. Students are helped to develop an understanding of the basic values and traditions of American society and an insight into the problems that confront it in the world today. Each semester is independent.

SOC 202 MAN AND SOCIETY (GENERAL SOCIOLOGY)

3 (3-0) f s

Introduction to the scientific study of man's behavior in relation to other men, the general laws affecting the organization of such relationships, and the effects of social life on human personality and behavior.

SOC 251, 252 GENERAL ANTHROPOLOGY

2 (2-0) f s

In the first semester, a study of the biological development of man as a species; analysis of the formation and spread of races; introduction to archaeology as a study of the material remains of ancient man and his activities. In the second semester, an analysis of various living societies and their cultures in terms of social adjustment to recurrent needs. Each semester is independent.

SOC 301 HUMAN BEHAVIOR

3 (3-0) f s

A study of the effects of social interaction upon individual behavior and personality; collective attitudes and behavior as products of group experience; analysis of fashions and fads, crowds, mobs, public, social movements.

SOC 302 PUBLIC RELATIONS AND MODERN SOCIETY

3 (3-0) f s

A study of the social and community setting of public relations, followed by a more intense analysis of the development and composition of social groups and the processes involved in group organization. General characteristics and techniques of leadership in the field of public relations are analyzed and tested in the classroom. The student will study the significance and function of mass communication media and the expansion of the social functions of technical specialists and executives. The course concludes with a consideration of the role of public relations in regional and international affairs.

SOC 303 CURRENT SOCIAL PROBLEMS

3 (3-0) f s

Study of the social and cultural aspects of specific problems such as crime, divorce, race conflict, illness, poverty, housing, recreation, and personality adjustment to demonstrate the basic integration of society and community life.

SOC 304 CONTEMPORARY FAMILY LIFE

3 (3-0) f s

Basic interactions involved in courtship, marriage, and family life; analysis of the influence of family life upon economic, social, political, and religious activities; cultural and technological changes affecting the family; analysis of family structure and functions.

SOC 305 RACE RELATIONS

3 (3-0) f s

Analysis of race relationships both in the United States and throughout the world with particular emphasis on factors producing the changes taking place at the present time.

SOC 306 DELINQUENCY AND CRIME

3 (3-0) f s

Causes and conditions leading to delinquency; delinquency as a forerunner of crime, characteristics of the offender; methods of prevention and treatment of crime.

SOC 401 HUMAN RELATIONS IN INDUSTRIAL SOCIETY

3 (3-0) f s

Selected societies about the world contrasted with American society to demonstrate correlation between technology and general behavior patterns, both within industry and in the total social order; analysis of patterns of adjustment by the individual to the organizational framework in terms of social status, social roles, work norms, and attitudes; social significance of major characteristics of contemporary industry; inter-relationship between industry and social change; contribution of industry to social progress.

SOC 402 CITY LIFE

3 (3-0) f s

A study of the factors behind the organic growth of cities; the relationship between the physical design of cities and their social organization; detailed analysis of new developments in the serving of human needs; comparison of socio-psychological aspects of life in an urban society with those of predominantly agricultural societies; increasing integration of urban and rural living; study of demand for city and regional planning and use of administrative personnel with both technical and social backgrounds created by changing character of urban life.

SOC 411 COMMUNITY RELATIONSHIPS

3 (3-0) f s

A survey of the institutions, organizations, and agencies found in modern communities; social problems and conditions with which they deal; their interrelationship and the trend toward over-all planning.

SOC 412 INTRODUCTION TO SOCIAL WORK

3 (3-0) f s

A course designed to acquaint students with the various types of public and private social work and with remedial and preventive programs in applied sociology, social psychiatry, health, public welfare, and recreation.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

SOC 501 LEADERSHIP

3 (3-0) f s

A study of leadership in various fields of American life; analysis of the various factors associated with leadership, with particular attention given to recreational, scientific, and executive leadership problems.

SOC 502 SOCIETY, CULTURE, AND PERSONALITY

3 (3-0) f s

Human personality from its origins in primary groups through its development in secondary contacts and its ultimate integration with social norms. Emphasis is placed upon the normal personality and the adjustment of the individual to our society and our culture. Dynamics of personality and character structure are analyzed in terms of the general culture patterns and social institutions of society.

SOC 504 EDUCATION IN MODERN SOCIETY

3 (3-0) f s

Social factors conditioning learning and formal education; the social role of the teacher in the classroom and in the community; the function of the school in social change and progress.

SOC 505 THE SOCIOLOGY OF REHABILITATION

3 (3-0) f s

The course stresses the social and cultural implications of the rehabilitation approach. Emphasis is placed upon the social and personal problems of physically and mentally handicapped persons. The interrelationships of the major social environments are considered at length in this regard. Objectives of the rehabilitation processes are analyzed in terms of the sociology of work. A major portion of the course is devoted to rehabilitation as a profession, particular attention being given to the diverse roles of specialists in this field.

SOC 510 INDUSTRIAL SOCIOLOGY

3 (3-0) f s

Industrial relations analyzed as group behavior with a complex and dynamic network of rights, obligations, and rules; the social system as an interdependent part of total community life, background and functioning of industrialization studied as social and cultural phenomena; analysis of specific problems of industry.

SOC 515, 516 RESEARCH IN APPLIED SOCIOLOGY

3 (arrange) f s

Individual research problems in applied fields of sociology, such as problems of the family, population, and social work; rural urban relations, student success, American leadership.

SOILS

COURSES FOR UNDERGRADUATES

SOI 200 SOILS

4 (3-3) f s

Prerequisite: CH 103 or 203. MIG 120 is recommended but not required

The fundamental properties of soils and their relation to proper soil management. Geological information important to an understanding of soils and agriculture is presented for a better understanding of the interrelationship which exists between soils and management.

Mr. Folks

SOI 302 SOILS AND PLANT GROWTH

3 (3-0) s

Prerequisites: BO 102, PY 211, SOI 200

An examination of the fundamental chemical, physical, and microbiological characteristics of soils as related to crop production. The chemical and mineralogical composition of soils; ion exchange, soil reaction, and the solubilities of plant nutrients; transformations between organic and inorganic forms of plant nutrients; water and air relations in soils; lecture-demonstrations will be used to illustrate fundamental soil properties and to acquaint students with methods used in the study of soils.

Mr. Coleman

SOI 341 SOIL FERTILITY AND FERTILIZERS

3 (3-0) f

Prerequisites: SOI 200, BO 102

History of Plant Nutrition and Soil Fertility. Plant nutrition and growth as related to crop fertilization. Fertilizer materials, their manufacture, properties and usage. Fertilizer practices as related to a sound soil management program.

Mr. Folks

SOI 352 SOIL CLASSIFICATION

3 (2-3) s

Prerequisite: SOI 200

The origin, characteristics, classification, and use-suitability of soils of North Carolina and the Southeastern United States; field trips.

Mr. Lee

SOI 461 SOIL CONSERVATION AND MANAGEMENT

3 (3-0) f

Prerequisite: SOI 200

The history and status of erosion and fertility conditions; the economic and social aspects of soil conservation; the effects of climatic factors, vegetation (forests, sod crops, cover crops and rotations), soil properties, and other management practices on soil conservation and fertility maintenance.

Mr. Lutz

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

SOI 511 SOIL PHYSICS

4 (3-3) f

Prerequisites: SOI 200, PY 202

Physical constitution and analyses; soil structure, soil water, soil air, and soil temperature in relation to plant growth.

Mr. Lutz

SOI 521 SOIL CHEMISTRY

4 (4-0) f

Prerequisites: SOI 200, CH 212, and CH 532

Chemical composition and properties of soil, particularly concerning clay mineralogy, chemical processes of weathering, soil solution reaction, chemical properties of lays and ionic exchanges in soils.

Mr. McAuliffe

SOI 522 METHODS OF SOIL CHEMISTRY

4 (2-6) s

Prerequisites: SOI 341, CH 212

Procedures for the separation and identification of soil constituents. Methods and techniques for the study of the chemistry of soils. Particular emphasis is placed on the demonstration of fundamental soil chemical properties and on the use of soil analyses in assessing soil fertility.

Mr. Coleman

SOI 532 SOIL MICROBIOLOGY

4 (3-3)s

Prerequisites: SOI 200, BO 412, 421

The more important microbiological processes that occur in soils; decomposition of organic materials, ammonification, nitrification and nitrogen fixation.

Staff

SOI 570 SPECIAL PROBLEMS

Credits by arrangement

Prerequisites: SOI 200, CH 212. Students admitted only with consent of instructors.
Special problems in various phases of Soils. Problems may be selected or will be assigned. Emphasis will be placed on review of recent and current research.

Staff

COURSES FOR GRADUATES ONLY*

SOI 611 ADVANCED SOIL PHYSICS***

4 (3-3-) s

Prerequisites: SOI 511, MA 401, PY 202

An introduction into the usage of theoretical method in soil physics. Lectures, literature, and discussions centered around problems in the movement of soil water, soil gases and heat flow through soils.

Mr. Van Bavel

SOI 621 SPECIAL TOPICS IN SOIL CHEMISTRY

Credits by arrangement

Prerequisites: SOI 521, 522. Registration by permission of instructor.
Detailed examination of current concepts in a selected field of soil chemistry, such as clay mineralogy, cation exchange or soil organic matter. Offered for small groups of graduate students particularly interested in a specific field of soil chemistry, and to be taught by the members of the staff who are most conversant with that particular field.

Staff

SOI 642 ADVANCED SOIL FERTILITY**

3 (3-0) s

Prerequisites: SOI 511, 521, 522

Soil conditions affecting crop growth; the chemistry of soil and plant interrelationships; theoretical and applied aspects of fertilizer usage in relation to plant nutrition.

Mr. Fitts

SOI 651 SOIL MORPHOLOGY, GENESIS, AND CLASSIFICATION

4 (3-3) s

Prerequisites: SOI 200, CH 212, MIG 120

Morphology: Descriptive aspects of soil profiles including field work, nomenclature, and sampling of representative Great Soil Groups typical of North Carolina. Genesis: A critical evaluation of the factors of soil formation and the processes responsible for profile differentiation in Great Soil Groups of the World. Classification: The historical development of soil classification through present day concepts, with a critical evaluation of each with respect to the natural system of classification.

Mr. McCaleb

SOI 680 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing in Soils

Scientific articles, progress reports in research, and special problems of interest to agronomists reviewed and discussed.

A maximum of two credits is allowed toward the Master's degree, but any number toward the Doctorate.

Staff

SOI 690 RESEARCH

Credits by arrangement

Prerequisite: Graduate standing in Soils

A maximum of six credits is allowed toward the Master's degree but any number toward the Doctorate.

Staff

STATISTICS

SEE EXPERIMENTAL STATISTICS

* Students are expected to consult the instructor before registration.

** Offered in 1956-57 and in alternate years.

*** Offered in 1955-56 and in alternate years.

TEXTILES

SCHOOL OF TEXTILES — — — — —

COURSES FOR UNDERGRADUATES

TX 101 YARN PRINCIPLES 2 (1-2) f s

Required of freshmen in all Textile curricula
This course is an introduction to textile manufacturing. It covers briefly the processes common to yarn manufacturing, and in a broader sense the types of mechanisms common to all textile machines, calculations involving speeds, productions, and twists that are associated with these mechanisms, and the theory and application of the cotton numbering system. The lecture and recitation work are supplemented by laboratory application, which covers in detail the work of the classroom.
One 1-hour lecture and one 2-hour laboratory period per week.

Staff

TX 201 YARN MANUFACTURE II 4 (3-2) f s

Prerequisite: TX 101
Required of sophomores in Textiles
Combined lecture and laboratory instruction on the functions involved in processing textile fibers on the cotton system from the raw product to the spun yarn. Particular emphasis is given to a study of the functions of opening, cleaning, doubling, evening, and drafting.
Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Parker, Smith

TX 301 YARN MANUFACTURE III 4 (3-2) f s

Prerequisite: TX 201
Required of juniors in Textiles
A continuation of Yarn Manufacture II on the functions of twisting and packaging of cotton rovings and yarns, with laboratory work supplementing lecture instruction. Also included is a study of textile machines as producing units—such machines as combers, roving frames, twisters, and the like.
Three 1-hour lectures and one 2-hour laboratory period per week.

Mr. Smith

TX 321 TEXTILE TESTING I 3 (1-4) f

Required of juniors in Textile Chemistry
Physical testing and evaluation of yarns and fabrics with emphasis on techniques, instruments and methods for quality measurements of finished products; also collection and interpretation of data and reporting of results.
One 1-hour lecture and two 2-hour laboratory periods per week.

Mr. Hamby

TX 323 TEXTILE TESTING II 3 (1-4) f s

Required of juniors in Textiles
Quality control methods for textile processing, with emphasis on the measurement by laboratory instruments and techniques, and including a study of the mechanical and natural influences involved.
One 1-hour lecture and two 2-hour laboratory periods per week.

Messrs. Grover, Hamby, Stuckey

TX 401 YARN MANUFACTURE IV 4 (3-2) f s

Prerequisite: TX 301
Required of seniors in Yarn Manufacturing and General Textiles Options.
Elective for others
Refinements on yarn production, such as detailed study of carding; production levels; comber types, settings, and quality aspects; modern drafting assemblies. Review of all yarn mill calculations. Production of novelty yarn, and special yarns such as voile, crepe. Manufacturing of thread yarn. Special techniques and problems; types of winders; large package production, types of travelers and rings; operation schedules. Lab project in small groups. (Piece rates.)
Three 1-hour lectures and one 2-hour laboratory period per week.

Mr. Parker

TX 402 MILL TECHNOLOGY 3 (3-0) s

Prerequisite: TX 301
Required of seniors in Yarn Manufacturing and Synthetics Options
Elective for others
Mill Layout: layout of textile mill of cotton or synthetics type. Types of machines, numbers, and balance of equipment. Floor layout plans and process flow, speeds, productions, help layout, power and investment.
Three 1-hour lectures per week.

Messrs. Grover, Parker

TX 411 WOOL MANUFACTURE I

3 (2-2) f s

Prerequisite: TX 301

Required of seniors in Yarn Manufacturing and General Textiles Options
Elective for others

Raw materials used in wool and worsted trades; classification, structure, and characteristics of fibers, grading, sorting and mixing. Reclaimed wool and secondary raw materials. Lectures are supplemented by laboratory applications
Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Pardue

2 (0-4) s

TX 424 DEVELOPMENT PROJECT

Prerequisite: TX 323

Required of seniors in Quality Control Option

Studies are conducted independently on assigned problems, and seminars are held on applications and administration of testing, quality control and development. Studies and discussion of budgeting and evaluation of priority and progress. Current technical developments are discussed. Results of project to be written in form of a technical report from a control and development laboratory.
One 4-hour laboratory period per week.

Staff

TX 431 SYNTHETICS I

2 (2-0) f s

Prerequisite: TX 481

Required of seniors in General Textiles, Weaving and Designing, and Yarn Manufacturing Options

A general course including: textile processing of continuous filament synthetic yarns in the yarn producing plants; preparation of yarns for weaving and knitting including crepe, voile and hosiery yarns; the application of synthetic yarns for use as industrial yarns and fabrics; also, calculations involving the denier system and production calculations.
Two 1-hour lectures per week.

Messrs. Grover, Hamby

TX 433 SYNTHETICS II

4 (3-2) f

Prerequisite: TX 481

Required of seniors in Synthetics Option

An advanced study of the physical problems and the relations of physical properties to the processing characteristics and end product performances of the synthetic fibers. A study of the influence of twist on physical properties of filament yarns; comprehensive studies of the processing of sized and unsized filament yarns as encountered in the throwing industry and in preparation for knitting and weaving. A study of the industrial uses of synthetic fibers and the requirements of such uses.
Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Grover, Hamby

TX 435 SYNTHETIC FIBER PROCESSING

4 (3-2) f s

Prerequisite: TX 301

Required of seniors in Yarn Manufacturing and Synthetic Options
Elective for others

Studies of the contributions of individual fibers to the entire blend covering both the man-made as well as natural fibers. Processing of man-made fibers into spun yarn and fabric, particularly on the cotton system. The processing of man-made fibers by new methods, such as by direct spinning and the Pacific Converter. Studies of the modification of machines for processing synthetic fibers alone or in blend with other fibers.
Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Grover, Hamby, Parker

KNITTING TECHNOLOGY

TX 241 KNITTING I

3 (2-2) f s

Required of sophomores in Textiles

Selection and preparation of knitting yarns, knitting mechanisms, structure of selected types of spring and latch needle fabrics; operation and adjustment of the basic types of knitting machines.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Lewis, Middleton

TX 341 HOSIERY MANUFACTURE

2 (2-0) f s

Prerequisite: TX 241

Required of juniors in Textiles

A study of advanced types of circular knitting machines and the problems involved in the manufacture of fine hosiery. Hosiery design and analysis.
Two 1-hour lectures per week.

Mr. Middleton

TEXTILES

TX 343 KNITTED FABRIC DESIGN AND ANALYSIS

2 (0-4) f

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

Stitch formation for the more intricate knitted fabrics; control mechanisms for pattern work; designing methods; analysis of fabrics for reproduction and costing; color in knit goods.

Two 2-hour laboratory periods per week.

Mr. Lewis

TX 441 FLAT KNITTING

3 (2-2) f

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

A study of the leading types of flat knitting machines including warp knitting machines, design possibilities, and fabric adaptability.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

TX 443 KNITTING MECHANICS

3 (2-2) f

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

Mathematics and mechanics of flat and rib knitting. Interrelation of yarn number, yarn diameter, gauge, cut, stitch, length, fabric structure and weight; proportions of yarns in multiple-thread work; production problems, etc.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

TX 444 GARMENT MANUFACTURE

3 (2-2) s

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

A study of circular latch needle and spring needle machines for knit fabric production styling, cutting and seaming of the basic garment types for underwear and outerwear; standard seam types; high-speed sewing machines.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Shinn, Lewis

TX 445 FULL-FASHIONED HOSIERY MANUFACTURE

2 (2-0) s

TX 447, f 448 s KNITTING LABORATORY II

2 (0-4)

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

Mechanics of the full-fashioned hosiery machine including practical training in its adjustment and operation. Attention is given to yarn preparation, knitting, inspection, finishing and packaging hosiery.

One 4-hour laboratory period per week each semester. Two 1-hour lectures per week in spring semester.

Mr. Shinn

TX 449 TRICOT KNITTING

3 (2-2) s

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

A study of basic types of tricot knitting machines with emphasis on mechanisms and fabrics. Attention is given to warp preparation methods applicable to the tricot machine, the characteristics of yarns made from natural and synthetic fibers as they affect processing into warp knitted fabrics, machine settings for proper qualities and ratios; economics of warp knitting, and end uses. Attention is given to fabric design and analysis.

Three 1-hour lectures per week

Mr. Shinn

FABRIC DEVELOPMENT

TX 151 FABRIC PRINCIPLES

2 (1-2) f s

Required of freshmen in all Textile curricula

An introduction to the study of fabric development and construction. The methods of preparing yarn for weaving, the weaving of fabrics, and the calculations required to produce a fabric are included. Lectures are supplemented by laboratory exercises in operation of the machinery.

One 1-hour lecture and one 2-hour laboratory period per week.

Mr. Whittier and Staff

TEXTILES

TX 251 WEAVING II

3 (1-4) f s

Prerequisite: TX 151

Required of sophomores in Textiles

A study of cam loom mechanisms; cams and their construction; timings, settings and operation of plain cam and drop-box looms.

One 1-hour lecture and two 2-hour laboratory periods per week.

Messrs. Moser, Berry, Klibbe

TX 261 FABRIC STRUCTURE

3 (2-2) f s

Prerequisite: TX 151

Required of sophomores in Textiles

A study of the fundamental principles of fabric structure. Special emphasis is placed on the weave formation, drawing in draft, and cam design of basic fabrics, such as plain woven grey goods, twills, sateens and their common derivatives.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Moser, Gaither, Berry

TX 271 UPHOLSTERY FABRICS

2 (2-0) f

Required of sophomores in Furniture Manufacturing

A study of the basic principles of fabric structure and identification. A complete description of fabrics particularly suited to the furniture trade, including nomenclature, economic importance, physical properties and price structure.

Messrs. Whittier, Gaither

TX 351 WEAVING III

3 (2-2) f s

Prerequisite: TX 251

Required of juniors in Textiles

Methods of drawing-in and starting up dobby warps; setting of harness shafts; selection of springs or spring jacks. Construction and setting of drop-box motions, single and double index dobbies and automatic mechanisms; methods of fixing looms.

Preparation of warps for weaving fabrics on dobby looms; starting up warps in looms; pattern chain building; operation of dobby looms.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Porter, Moser, Gaither, Berry

TX 361 DOBBY DESIGN AND ANALYSIS I

3 (1-4) f s

Prerequisite: TX 261

Required of juniors in Textiles

A study of basic dobby weaves and their drawing in drafts, chain and reed plans. This course includes the development of such weaves as ribs, spot designs, fancy twills, honeycombs, piques, warp and filling back weaves and their application to styled fabrics. Instruction in fabric analysis techniques and use of laboratory instruments for determination of fabric construction details. The development of fabric specifications and design is stressed.

One 1-hour lecture and two 2-hour laboratory periods per week.

Messrs. Moser, Gaither, Porter

TX 373 FABRIC TECHNOLOGY

2 (2-0) f s

Prerequisite: TX 261

Required of seniors in Weaving and Designing Textile Options

Elective for others

Calculations for construction and factors which affect it; average yarn count; cloth constant, percentages of warp, filling and sizing; ascertaining the counts of warp and filling required for a given weight and construction; checking the correctness of any given yarn combination; obtaining spun counts from sized yarns; calculating yarn to be spun for a specific order; allocation of looms; loom speeds and production.

Two 1-hour lectures per week.

Staff

TX 451 WEAVING LABORATORY IV

1 (0-2) f s

Prerequisite: TX 351

Required of seniors in General Textiles and Weaving and Designing Options

Elective for others

Operation and fixing of dobby, pick and pick and jacquard looms; preparation of warps to weave rayon, wool and fine cotton fabrics; building of box, dobby and multiplier chains.

One 2-hour laboratory period per week.

Messrs. Moser, Berry

TX 452 WEAVING LABORATORY V

2 (0-4) s

Prerequisite: TX 451

Required of seniors in Weaving and Designing Option

Elective for others

Continuation of TX 451 with special emphasis upon making original designs for dobby fabrics, preparing the warps and weaving the fabrics.

Two 2-hour laboratory periods per week.

Messrs. Moser, Berry

TEXTILES

TX 461 DOBBY DESIGN AND ANALYSIS II

3 (2-2) f

Prerequisite: TX 361

Required of seniors in General Textiles and Weaving and Designing Options

Elective for others

A detailed study of the design and weave of complicated fabrics such as double cloth, corduroy, velveteen, crepe and intricate figured designs, matelasse, velvet and frieze. Analyzing samples of cotton, wool, worsted, linen rayon and silk fabrics for size of yarns ends and picks per inch, weight of warp and filling, so as to accurately reproduce sample analyzed; obtaining design, drawing in draft, chain, and reed plan for fancy fabrics, such as stripes, checks, extra warp and extra filling figures, leno fabrics, jacquard fabrics, draperies.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Berry

TX 471 COLOR IN WOVEN DESIGN

2 (2-0) f s

Prerequisite: TX 361

Elective

Pigment and light theories of color; contrast and harmony of colors; factors which influence quality, style and color; methods of applying weaves and color to fabrics for wearing apparel and home decorations.

Two 1-hour lectures per week.

Staff

TX 473 FABRIC CHARACTERISTICS

2 (1-2) f s

Prerequisite: TX 361

Elective

A study of the identification, classification and utilization of woven fabrics and how these are affected by various properties such as geometry, weave, and finish. Actual inspection of a wide range of fabrics with emphasis on a study of defects and their influence on quality will be included in the laboratory work.

One 1-hour lecture and one 2-hour laboratory periods per week.

Mr. Whittier

TX 474 PILE FABRICS

3 (2-2) s

Prerequisite: TX 451

Elective

A study of single shuttle and double shuttle pile fabric such as terry cloth, corduroy, plush and carpet fabrics. This will include the fabric structure, yarn preparation, weaving and finishing aspects of pile fabrics woven on cam, dobby and jacquard looms.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Berry

TX 476 SYNTHETICS III

3 (2-2) s

Prerequisites: TX 351, 361

Required of seniors in Synthetics Option

Advanced study of the development and construction of fabrics made with synthetic yarns. The course includes lectures on the special problems encountered in the design, warp and filling preparation and weaving of fabrics made with filament yarns. The methods used by industry to overcome these difficulties are demonstrated in the laboratory sessions.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Moser

TEXTILE CHEMISTRY — — — — —

TC 201 TEXTILE CHEMISTRY I

2 (2-0) f s

Prerequisite: CH 103

Required of sophomores in Textiles

A comprehensive course designed to familiarize the student with the chemical properties of all natural and synthetic fibers, and with their expected behavior under the various conditions to which they may be exposed. A brief survey of those parts of organic chemistry applicable to textile materials is included.

Two 1-hour lectures per week.

Mr. Rutherford

TC 301, 302 TEXTILE CHEMISTRY II

3 (2-2) f s

Prerequisite: TC 201

Required of seniors in Textiles

A comprehensive course covering: a brief outline of the methods of scouring, bleaching, dyeing, printing, and finishing textile materials; a study of the machinery involved in the wet handling of textiles.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Hayes

TEXTILES

TC 303, 304 TEXTILE CHEMISTRY III

4 (2-4) f s

Prerequisite: Concurrent enrollment in CH 421, 422

Required of juniors in Textile Chemistry

A study of the action of chemicals on fibers; methods and chemistry of scouring, bleaching, and mercerization; preparation of typical dyestuffs and their application to fibers. Two 1-hour lectures and one 4-hour laboratory period per week.

Mr. Hayes

TC 403, 404 TEXTILE CHEMISTRY IV

4 (2-4) f s

Prerequisite: TC 304

Required of seniors in Textile Chemistry

A continuation of TC 303 and 304 with special emphasis on modern dyeing methods. Laboratory exercises and use of pilot and mill-scale equipment of many types in dyeing all important fibers and fiber mixtures. Selected topics of importance to the textile chemist with special attention to current technological advances in the field. Visits to mills selected to cover a wide variety of processing techniques.

Two 1-hour lecture and one 4-hour laboratory per week.

Mr. Campbell

TC 411 TEXTILE CHEMICAL ANALYSIS I

3 (1-4) arrange

Prerequisite: CH 211

Elective for students in Textile Chemistry

Analysis and evaluation of textile chemicals and related materials such as water, soap, wetting agents, synthetic detergents, bleaching and stripping agents, and finishing compounds. Identification and quantitative determination of materials employed in several categories of textile wet processing such as sizes, surface-active agents, dyestuffs and finishes.

Two 2-hour laboratories per week.

Messrs. Rutherford, Campbell

TC 412 TEXTILE CHEMICAL ANALYSIS II

3 (1-4) s

Prerequisites: CH 211 and TC 304

Elective for students in Textile Chemistry

Analysis of textile materials involving specialized instruments and techniques such as spectrophotometry, pH measurements, electrometric titration, viscometry, etc.

Two 2-hour laboratories per week.

One 1-hour lecture and two 2-hour laboratory periods per week.

Messrs. Rutherford, Campbell

TC 421 FABRIC FINISHING I

2 (2-0) f s

Prerequisite: TC 201

Required of seniors in Synthetics Option. Elective for others, except students in Textile Chemistry

A general course in fabric finishing designed for students not majoring in Textile Chemistry. Emphasis placed on finishes used on garment-type fabrics, including stabilization finishes, water repellency, crease resistance, moth and mildew proofing, fire-proofing, etc. Emphasis on chemistry of finishes varied to fit requirements of students.

Two 1-hour lectures per week.

Mr. Hayes

TC 423 FABRIC FINISHING II

3 (1-4) f

Prerequisite: TC 304

Required of seniors in Textile Chemistry

A study of the compounds used in the finishing of fabrics, and of the methods used in laboratory development and plant application of finishing compounds. Studies of the methods of evaluation of finishes are included in the laboratory work.

One 1-hour lecture and one 4-hour laboratory period per week.

Mr. Rutherford

TC 425 TEXTILE MICROSCOPY

1 (0-2) f s

Prerequisite: TX 481

Required of all Textile and Textile Chemistry students

Experiments, lectures, and demonstrations in application of microscopy to textiles. Experiments include fiber study by both longitudinal and cross-sectional section, cotton maturity, starch studies, micrometry of fibers, and others. Fundamentals of polarizing, phase contrasts, and electron microscopes are covered. Demonstrations of euscope, projection microscope, photomicrographic cameras, and other devices.

One 2-hour laboratory period per week.

Mr. Stuckey

TEXTILES

TC 431 TEXTILE PRINTING

3 (1-4) s

Prerequisite: TC 304

Required of students in Textile Chemistry

Fundamentals of textile printing with major emphasis on modern roller printing methods; design of printing machines, preparation of cloth for printing, formulation and properties of printing pastes, application techniques for all important types of dyestuffs, styles of printing, and aging and aftertreating procedures.

One 1-hour lecture and one 4-hour laboratory period per week.

Mr. Campbell

GENERAL TEXTILE COURSES

TX 281 FIBER QUALITY

3 (3-0) f s

Required of juniors in Textiles

History, development, production, ginning and handling of cotton. World crops; marketing methods; classification; relation of grade and staple to the value of cotton. Measurement of the physical properties of cotton fibers and their relation to spinning quality; relation of grade and staple to waste, spinning behavior, and yarn quality. Selection of cotton for different types of yarns and fabrics.

An introduction to synthetic fiber knowledge, including the history, development, and classification of all synthetic fibers. A study of the manufacturing processes of synthetic yarns. A description of the chemical and physical properties of the fibers and yarns and how these affect the selection of synthetic yarns and fabrics by consumers.

Three 1-hour lectures per week.

TX 284 TEXTILE PROCESSING

4 (3-2) s

Prerequisites: TX 101, 151

Required of sophomores in Textile Chemistry

A general textile manufacturing course covering the production of yarns and fabrics. The fundamentals of yarn manufacture, including opening, picking, cleaning, carding and spinning are covered. Special emphasis is put on creeling, beaming and slashing of warps for weaving, and the preparation of warps for knitting. Fundamental principles of textile design, weaving and knitting are covered.

Three 1-hour lectures and one 2-hour laboratory period per week.

Mr. Woodbury

TX 483 TEXTILE COST METHODS

2 (2-0) f s

Prerequisites: TX 301, 361

Required of seniors in Textiles except those in Management Option

A survey of cost methods applicable to textile mills with emphasis on calculations, the preparation of cost reports, and their use in cost control.

Two 1-hour lectures per week.

TX 484 MILL ORGANIZATION

3 (3-0) s

Prerequisites: TX 301, 361

Required of seniors in Textiles

Studies of organizations of textile mills from personnel as well as functional viewpoints and of the planning and scheduling of manufacturing contracts through opening and weaving mills. Analysis of manufacturing organizations based on processes and equipment.

Three 1-hour lectures per week.

Mr. Grover

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

FIBER AND YARN TECHNOLOGY

TX 501 YARN TECHNOLOGY SEMINAR

2 (2-0) s

Prerequisite: TX 401

Elective

Lecture and discussion periods are designed for students who are particularly interested in the yarn manufacturing aspects of the textile industry. Subject matter will include such various aspects as training methods, safety programs, modern mill design, specialized techniques in setting rates, employee relations, and developments that arise from technical meetings.

Two 1-hour lectures per week.

Mr. Grover and Staff

TX 521 TESTING AND QUALITY CONTROL

4 (2-4) f

Prerequisite: TX 323

Required of students in Quality Control Option. Elective for others

Testing of natural and man-made fibers and of yarns and fabrics, with emphasis on advanced testing techniques. Consideration of quality control programs, including "defect preventive" methods, pin-pointing of troubles, and the relationship between the quality control department and operating divisions. Technical report writing, literature research, and study of military specifications and U. S. Government standards as CCC-T-191b. Attendance at technical meetings such as the Fiber Society, American Society for Testing Materials, American Society for Quality Control is encouraged.

Two 1-hour lectures and one 4-hour laboratory period per week.

Messrs. Grover, Hamby

TX 522 TEXTILE TESTING III

4 (2-4) s

Prerequisite: TX 521, or graduate standing, with approval of instructor

Required of students in Quality Control Option. Elective for others

Mechanics of textile fabrics, with emphasis on the application of engineering criteria to laboratory evaluation of natural and man-made fibrous materials, stress-strain relationships, modifications due to impact, torsional properties, thermoplastic material degradation, permeability to gases and liquids, theory of induced wear with influence of abrasion. Influence on fabric properties resulting from blending of fibers, and modification of properties by varying fiber distribution. Specialized techniques of controlling attributes and variables of fabric quality.

Two 1-hour lectures and one 4-hour laboratory period per week.

Messrs. Grover, Hamby

TX 551 WEAVING VI

2 (2-0) s

Prerequisite: TX 451

Elective

Consideration of machine-design factors and operational problems and factors peculiar to the manufacture of selected complex fabrics. Unique economic problems of fabric production.

Two 1-hour lectures per week.

Mr. Whittier and Staff

TX 561 DOBBY DESIGN AND ANALYSIS III

2 (2-0) s

Prerequisite: TX 461

Required of seniors in Weaving and Designing Option. Elective for others

The development of design specifications for selected complex fabrics and a study of the geometrical and aesthetic factors influencing their suitability for specific end uses.

Two 1-hour lectures per week.

Mr. Whittier and Staff

TX 562 JACQUARD DESIGN AND WEAVING

3 (2-2) s

Prerequisite: TX 361

Required of seniors in Weaving and Designing Option. Elective for others

The application of punched card techniques to the design and manufacture of certain fabrics having intricate decorative patterns and special surface characteristics.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Berry

TEXTILE CHEMISTRY

TC 501 SEMINAR IN TEXTILE CHEMISTRY

2 (arranged) s

Prerequisite: TC 403

Elective for Textile Chemistry students

The course is designed to familiarize the student with the principal sources of textile chemical literature and to emphasize the importance of keeping abreast of developments in the field of textile chemistry. Particular attention is paid to the fundamentals of technical writing. Reports.

Lectures arranged.

Mr. Campbell, Staff

TC 511, f 512 s CHEMISTRY OF FIBERS

2 (2-0)

Prerequisite: CH 422

Required of seniors in Textile Chemistry

A lecture course emphasizing: the theory of fiber structure, the relationship between the chemical structure and physical properties of natural and synthetic fibers, the nature of the chemical reactions which produce degradation of fibers, the production of synthetic fibers.

Two 1-hour lectures per week.

Mr. Rutherford

TEXTILES

3

TC 521 TEXTILE CHEMICAL ANALYSIS III

Prerequisite: TC 421, or permission of instructor

1 (arranged) f s

Elective for all Textile students except those majoring in Textile Chemistry

The work includes the chemical identification of fibers, the qualitative and quantitative analysis of fiber blends by chemical means, and the evaluation techniques for dyed and finished materials.

Messrs. Rutherford, Campbell

TC 525 ADVANCED TEXTILE MICROSCOPY

Prerequisite: TC 425

2 (arranged) f s

Elective

Experiments, lectures and demonstrations in more advanced techniques of textile microscopy. Detailed studies of structures of fibers covered in lecture series, supplemented by experiments on lecture topics. Detailed study of all types of microscopes and their uses in textiles. Preparation of slides for photography. Uses of photomicrographic equipment.

Lectures and laboratories arranged

Mr. Rutherford, Staff

TC 605 PHYSICAL CHEMISTRY OF DYEING

3 (3-0) f

Prerequisites: CH 422, PY 212, MA 212 or graduate standing

Dyeing is treated as a physio-chemical process emphasizing equilibria, kinetics, and practical aspects of research into dyeing processes.

Mr. Cates

TC 606 CHEMISTRY OF FIBER-FORMING HIGH POLYMERIC SYSTEMS

3 (3-0) s

Prerequisites: CH 422, PY 212, MA 212 or graduate study

The course will embody studies of the mechanism and kinetics of polymerization, the properties and behavior of high polymer solutions, the mechanical behavior of natural and synthetic fibrous material as related to the molecular structures.

Mr. Cates

GENERAL TEXTILE COURSE

TX 581 INSTRUMENTATION AND CONTROL

3 (2-2) f s

Required of all seniors in Textiles and Textile Chemistry

A lecture series with coordinated laboratory exercises designed to familiarize the student with the theory and application of instruments and control apparatus that he will find in the modern textile plant.

The studies cover the measurement and control of temperature, humidity, regain, chemical processes, physical finishing processes, time and temperature cycles, yarn and cloth tension, speed, and fluid pressure.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Asbill

COURSES FOR GRADUATES ONLY

TX 601, 602 YARN MANUFACTURE

3 f s

Prerequisite: TX 401 or equivalent

A study of breaking strength and related properties of cotton yarns made under various atmospheric conditions; comparison of yarns produced from long and short-staple cotton with regular and special carding processes; efficiency of various roller covering materials at the drawing processes; elimination of roving processes by special methods of preparation; comparison of regular and long-draft spinning.

Messrs. Grover, Hamby

TX 621 TEXTILE TESTING IV

2 f s

Prerequisite: TX 522 or equivalent

Design of textile laboratories, including conditioning equipment and instruments required for specific needs; performance of tests and analysis of data on industrial problems; specialized physical tests; inter-laboratory tests and analysis; study of A.S.T.M. specifications and work on task groups for the A.S.T.M. Society.

Messrs. Grover, Hamby

TX 631 SYNTHETICS IV

2 s

Prerequisite: TX 433 or equivalent

Setting up of an assigned project on problems peculiar to the processing of continuous filament yarns, particularly in the initial preparatory stages of processing, and including sizing, twisting, winding, and associated problems.

Messrs. Grover, Hamby

ZOOLOGY

TX 641, 642 ADVANCED KNITTING SYSTEMS AND MECHANISMS

3 f s

Prerequisite: TX 441 or equivalent

A critical study of inventions which have contributed to the development of the modern knitting industry; knitting needles and their adaptation for specific uses, means for mounting them for individual and en masse operation; construction and functioning of cooperating elements including sliders, jacks, sinkers, dividers, pressing elements, narrowing and tensioning and draw-off motions, regulating mechanisms, timing and control chains and cams.

Use will be made of patent literature such as U. S. Patents 2,413,601 and 2,431,160, Bitzer, which represent important developments in the full-fashioned hosiery industry.

Three 1-hour lectures per week.

Mr. Shinn

TX 643, 644 KNITTING RESEARCH

3 f s

Prerequisites: Graduate standing and 8 credits in Knitting

Problems of specific interest to the knitting industry will be assigned for study and investigation. The use of experimental methods will be emphasized. Attention will be given to the preparation of reports for publication.

Staff

TX 651, 652 FABRIC DEVELOPMENT AND CONSTRUCTION

3 f s

Prerequisite: B S. degree in Textiles (Weaving and Designing Option) or equivalent

Application of advanced technology to the development and construction of woven fabrics.

Mr. Whittier

TX 681, 682 TEXTILE RESEARCH

3 f s

Problems of specific interest to the textile industry will be assigned for study and investigation. The use of experimental methods will be emphasized. Attention will be given to the preparation of reports for publication. The master's thesis may be based upon the data obtained.

Staff

TX 683, 684 SEMINAR

1 f s

Discussion of scientific articles of interest to textile industry; review and discussion of student papers and research problems.

Staff

TC 603, 604 TEXTILE CHEMISTRY V

3 f s

Prerequisite: TC 404

Theories of dyeing applicable to the various fiber-dye systems. Modern concepts of textile finishing. Special attention to problems introduced by the new synthetic polymer fibers in the field of dyeing and finishing. Advanced work in the chemical examination and evaluation of textile chemical auxiliary materials.

ZOOLOGY

COURSES FOR UNDERGRADUATES

ZO 101 GENERAL ZOOLOGY

3 (2-2) f s

Animals with special reference to the morphology and physiology of vertebrates, including intensive laboratory study of the mammal with lecture and laboratory work closely integrated and applied to human life.

Staff

ZO 102 GENERAL ZOOLOGY

3 (2-2) f s

Animals with special reference to economic and ecological consideration designed to give the student a general understanding of animal life and its importance in human affairs.

Staff

ZO 212 HUMAN ANATOMY

3 (2-2) f

Prerequisite: ZO 101

A study of human anatomy with major emphasis on the structure and function of the muscular, skeletal, circulatory, and nervous systems. Required of majors in recreation

Mr. Evers

ZO 213 HUMAN PHYSIOLOGY

3 (2-2) s

Prerequisite: ZO 101

An elementary survey of human physiology. The central theme is the changes in the human body accompanying increased physical activity. The nature and mechanisms of these changes.

Mr. Evers

ZOOLOGY

ZO 223 COMPARATIVE ANATOMY

4 (2-4) f

Prerequisites: ZO 101, 102

A comparative morphology of vertebrates demonstrating the interrelationships of the organ systems of the various groups.

Mr. Harkema

ZO 252 ORNITHOLOGY

3 (2-3) s

Prerequisite: ZO 101

The biology, natural history, and classification of North American birds, with special reference to those of North Carolina and the eastern United States. Field trips for the study and identification of local forms.

Mr. Quay

ZO 301 ANIMAL PHYSIOLOGY

3 (2-3) f s

Prerequisites: ZO 101; PY 211; CH 101 or 201, and 203

Physiology of vertebrates with particular reference to man and the lower animals.

Mr. Evers

ZO 312 PRINCIPLES OF GAME MANAGEMENT

3 (3-0) f

Prerequisite: ZO 102; Elective for juniors and seniors not majoring in Wildlife

This course is intended to provide the student with a basic understanding of the major principles of wildlife management. It is designed especially for those individuals who anticipate entering the fields of agriculture, forestry, agricultural extension, or rural and industrial recreation.

Mr. Barkalow

ZO 315 ANIMAL PARASITOLOGY

3 (2-3) s

Prerequisites: ZO 101, 102

This course is designed to give students a knowledge and appreciation of the parasitic habit. The biology, life history, pathology, and control of the common parasites of domestic animals and poultry are covered.

Mr. Harkema

ZO 321 WILDLIFE AND NATURAL RESOURCE CONSERVATION

3 (3-0) s

Prerequisite: Sophomore standing in any school

The importance of natural resources to man and the part they play in national and international affairs; the principles which underlie their conservation and the impact of over-exploitation on primitive and civilized societies. Emphasis is placed on the renewable resources, particularly wildlife.

Mr. Barkalow

ZO 332 FUR RESOURCES

3 (1-4) f

Prerequisite: ZO 101

Life history and management of the important fur-bearing animals; skinning, drying, marketing pelts, fur farming.

Mr. Barkalow

ZO 452* ANIMAL MICROTECHNIQUE

3 (1-5) s

Prerequisites: ZO 101, 102, and CH 203

The theory and practice of preparing temporary and permanent histological mounts for microscopic study.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ZO 501* ADVANCED ORNITHOLOGY

3 (2-3) f

Prerequisite: ZO 252, or approval of the instructor

Upland game birds, rails, and waterfowl—life histories, taxonomic relations, distribution, habitat and territory, display and behavior, instinct and intelligence food habits, census methods, populations and factors affecting abundance, management problems and procedures, recent investigations, current literature.

Mr. Quay

ZO 513 ADVANCED ANIMAL PHYSIOLOGY I**

3 (3-0) f

Prerequisite: ZO 301

Fundamentals of animal physiology from an advanced point of view. Lectures, discussions, outside reading, written and oral reports. Topics in the field of animal physiology will be selected for vigorous and detailed consideration in lectures and collateral reading. Each student will, in addition, prepare a term report, and his work will be supervised and evaluated during the preparation as well as at the end of the report. Selection of a few topics for study will be determined by the interests of the students and by their needs as may be expressed by the supervisor of their major work.

Mr. Evers

* Offered in alternate years. Will be given Spring 1958.

**Offered in alternate years. Will be given in Fall 1956.

ZOOLOGY

ZO 521 FISHERY BIOLOGY

3 (1-6) f

Prerequisite: ZO 101, 102, and approval of the instructor

The principles and methods of fishery science. Current theories and practices of fish management will be studied. The collection and analysis of quantitative data will be emphasized.

Mr. Hassler

ZO 522 ANIMAL ECOLOGY

3 (3-0) s

Prerequisites: ZO 101, 102

The general principles of the interrelations between animals and their environments—land, fresh water, marine.

Mr. Quay

ZO 532 (GN 532)* BIOLOGICAL EFFECTS OF RADIATIONS

3 (3-0) s

Prerequisites: ZO 101, and approval of the instructor

Recommended Correlatives: GN 411, ZO 301, and BO 421

Quantitative and quantitative effects of radiations (other than the visible spectrum) on biological systems, including both morphological and physiological aspects in a consideration of genetics, cytology, histology, and morphogenesis.

Mr. Grosch

ZO 541, 542 COLD-BLOODED VERTEBRATES

3 (1-4) s, or 3 (1-4) s

Prerequisites: ZO 101, 102

The classification and ecology of selected groups of fishes, amphibians, and reptiles. Lectures, laboratories, and field trips dealing with the systematic positions, life histories, interrelationships, and distribution of the particular groups of cold-blooded vertebrates selected in accordance with the needs and interests of the class.

Mr. Brandt

ZO 544 MAMMALOLOGY

3 (1-4) f

Prerequisites: ZO 101, 102 and approval of the instructor

The classification and ecology of the major groups of mammals with particular emphasis on the orders native to the Southeastern United States.

Mr. Barkalow

ZO 545 HISTOLOGY**

4 (2-4) f

Prerequisites: ZO 101, 102

The microscopic anatomy of animal tissues.

Mr. Harkema

ZO 551, 552 WILDLIFE MANAGEMENT

3 (2-3) f s

Prerequisites: ZO 252 and BO 441, or approval of the instructor

The basic principles of wildlife management and their application are studied in the field and laboratory. The course is designed primarily for those seniors majoring in the field of wildlife management.

Mr. Barkalow

ZO 561* ANIMAL EMBRYOLOGY**

4 (2-4) f

Prerequisites: ZO 101, 102

The study of fundamental principles which apply in the achievement of complex animal structure, including both invertebrate and vertebrate materials. Correlative laboratory study to provide training in the basic disciplines and techniques. This course is intended for advanced students in entomology, animal industry, poultry science, and zoology.

Mr. Harkema

ZO 571 ADVANCED WILDLIFE MANAGEMENT, SPECIAL STUDIES

**Credits by
Arrangement**

Prerequisites: ZO 551 or 312, and approval of the instructor

A directed individual investigation of a particular problem, accompanied by an advanced survey of pertinent literature. A maximum of three credits allowed toward the bachelor's degree, four toward the master's degree, and six toward the doctorate.

Staff

* Offered in alternate years. Will be given Spring 1958.

** Offered in alternate years. Will be given Fall 1956.

*** Offered in alternate years. Will be given Fall 1957.

ZOOLOGY

ZO 581 FOOD HABITS PROBLEMS

3 (0-9) f s

Prerequisite: Approval of the instructor

Selected problem dealing with the foods and feeding habits of one species of wild animal or a group of similar animals.

Staff

ZO 591* PARASITOLOGY I

4 (2-4) f

Prerequisites: ZO 101, 102, and 223

The study of the morphology, biology, and control of the parasitic protozoa and helminths of man, domestic and wild animals.

ZO 592 (ENT 582) PARASITOLOGY II MEDICAL ENTOMOLOGY**

3 (2-3) s

Prerequisite: ENT 301, or approval of the instructor

A study of the morphology, biology and control of the parasitic arthropods of man, domestic and wild animals.

Mr. Harkema

COURSES FOR GRADUATES ONLY

ZO 603 ADVANCED PARASITOLOGY

3 (2-3) s

Prerequisites: ZO 591, 592

The study of the theoretical and practical aspects of parasitism; taxonomy, physiology, and immunology of animal parasites.

ZO 611 ANIMAL ECOLOGY, SPECIAL STUDIES

Credits by Arrangement

Prerequisites: ZO 522, and approval of the instructor

Directed individual investigation of a particular problem, accompanied by an advanced survey of literature. A maximum of three credits allowed toward the master's degree and six toward the doctorate.

Staff

ZO 614 ADVANCED ANIMAL PHYSIOLOGY II

3 (3-0) f

Prerequisite: Approval of the instructor

Selected fundamental principles in physiology will be studied and interpreted for their relation to the vertebrates. Lectures and critical reports to promote acquaintance with general literature and recent advances. Lectures, discussions, written and oral reports.

Mr. Evers

ZO 622 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

The presentation and defense of current literature papers dealing either with the findings of original research or with fundamental biological concepts.

Staff

ZO 627, 628 ZOOGEOGRAPHY

3 (3-0) f s

Prerequisite: ZO 522, or approval of the instructor

A study of the geographic distribution of animals with the consideration of some of the important factors influencing geographic distribution.

Mr. Quay

ZO 641 RESEARCH IN ZOOLOGY

Credits by Arrangement

Prerequisites: Twelve semester credits in Zoology, and approval of the instructor

Problems in development, life history, morphology, physiology, ecology, game management, taxonomy, or parasitology. A maximum of six credits is allowed toward the master's degree but any number toward the doctorate.

Staff

* Offered in alternate years. Will be given Fall 1957.

** Offered in alternate years. Will be given Spring 1958.

We develop new ideas and techniques. But our mission is more than that. We, also, develop men who convert the techniques into finer products and healthier crops—for North Carolina State College is an investment in the economic future of North Carolina.

John William Harrelson
Chancellor, 1934-1953



Campus vista east from Kilgore and Scott Halls
to the College Union and Library in background.



OVER 550 TEACHERS • GUIDING, MOLDING, TRAINING

V. ADMINISTRATION AND FACULTY OF N. C. STATE

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THE ALUMNI ASSOCIATION— — — — —

H. W. Taylor, *Director of Alumni Affairs*

OBJECTIVES

The purposes of the Alumni Association are: to promote the growth, progress, and general welfare of State College; to foster among its former students a sentiment of regard for one another and continuing attachment to their Alma Mater; and to interest prospective students in attending State College.

MEMBERSHIP ACTIVITIES

Active membership is available to all former students, regardless of length of stay at the college; members of the faculty, administrative staff, Agricultural Extension Service, Agricultural Experiment Station, teachers of agriculture in North Carolina high schools; and other persons who have successfully completed a short course at North Carolina State College and received a certificate therefor.

Honorary membership consists of such distinguished persons as are duly elected to honorary membership in the Association. The Association meets annually during Alumni Week. Class reunions (scheduled so that each class has a reunion every five years after graduation) are also held each year in connection with Alumni Week. Officers of the Association are elected by the active members each year through the medium of a mail ballot. Local State College clubs are organized in most of the counties in North Carolina and in a number of cities in other states.

ALUMNI FUND

This fund was established by the Alumni Association at State College in 1952 to replace the old dues paying program and provide a means through which the alumni may contribute to the advancement of the College. Each alumnus is invited to make an annual contribution.

STATE COLLEGE NEWS

State College News is published every month in the year by the Alumni Association and sent to contributors to the Alumni Fund. The purpose of the magazine is to keep Association members in touch with the College and with each other. It carries news and pictures of former and present students and of the college.

THE ALUMNI OFFICE

Records of both graduate and nongraduates are kept by the Alumni Office. The master file includes information on all former students; other files are arranged geographically and by classes. Biographical files are also kept.

Serving as a medium of communication between alumni and the College, the Alumni Office, located in the Old Infirmary Building, is official headquarters for alumni when they visit the campus.

COLLEGE FOUNDATIONS— — — — —

L. L. Ray, *Director*

There are eight foundations organized and incorporated under the laws of North Carolina which promote and support various programs of State College.

THE NORTH CAROLINA STATE COLLEGE FOUNDATION, INC.

was organized on December 11, 1942 to foster and promote the general welfare of North Carolina State College and to receive and administer gifts and donations for such purposes. The Board of Directors is composed of Alumni of State College and members of the Board of Trustees of the University of North Carolina.

THE NORTH CAROLINA AGRICULTURAL FOUNDATION, INC.

renders financial assistance through supplements in the development of strong teaching programs in agriculture and assists the Extension Service and Agricultural Experiment Station of the School of Agriculture at North Carolina State College.

THE NORTH CAROLINA DAIRY FOUNDATION, INC.

aims to promote and improve all phases of dairying in North Carolina through education, research, and extension. A Board of Directors of sixty persons handles the affairs of the Foundation; these directors represent distributors, producers, and jobbers.

THE NORTH CAROLINA ENGINEERING FOUNDATION, INC.

gives financial assistance to teaching, research, and extension in and through the School of Engineering.

THE NORTH CAROLINA TEXTILE FOUNDATION, INC.

was formed to promote the development of the School of Textiles, and was incorporated on December 31, 1942. Funds for this Foundation have been raised largely from textile manufacturing plants and other corporations and industries closely allied to textiles.

THE NORTH CAROLINA ARCHITECTURAL FOUNDATION, INC.

was organized in January, 1949. Foundation funds are used for the promotion and advancement of architectural education at North Carolina State College.

THE NORTH CAROLINA FORESTRY FOUNDATION

was incorporated April 15, 1929. The Foundation has acquired a tract of land known as the Hofmann Forest, consisting of about 80,000 acres in Jones and Onslow counties, which is used as a demonstration and research laboratory for forestry students.

PULP AND PAPER FOUNDATION, INC.

Incorporated December 19, 1954 by the southern pulp and paper mills, for the purpose of supporting the program of pulp and paper technology in the School of Forestry.

COLLEGE PUBLICATIONS

THE STATE COLLEGE RECORD

Official publication of State College, is issued monthly and announces the results of special studies and of research by members of the faculty. The March issue is generally the annual Catalog, with announcements for the following year. Announcements concerning College Extension courses are also made through the *Record* series. Brief notices of the short courses and special conferences which are held on the campus from time to time are issued by the Division of College Extension. The Director of Foundations likewise publishes brochures which are of special interest to North Carolinians.

THE STATELOG

is published monthly by the College to relate to the people of the state news of what is going on at State College and to strengthen the traditional link between the services of the College and the progress of the state. Subscription to the *Statelog* is free to all interested persons.

TECHNICAL AND SEMI-POPULAR BULLETINS

are issued by the Agricultural Experiment Station when research projects are completed or when they have progressed far enough that the results are seen to be of definite value. General publications interpreting the scientific findings of the Experiment Station or giving the results of Extension demonstrations are compiled by members of the Agricultural Extension staff and printed as circulars, folders, and pamphlets. Designed for popular use, these are usually written in a brief, clear style. Copies of these publications are sent free to citizens of the state upon request. Publication of these bulletins is announced by the press and radio of the state.

RESEARCH AND FARMING,

a quarterly bulletin journal written in popular style and giving the results of research and suggesting practical application of the information obtained is published by the Experiment Station.

EXTENSION FARM NEWS

published monthly, is the official house organ of the Extension Service. Subscription to both Research and Farming and Extension Farm News is free to citizens of North Carolina.

AGRICULTURE

An annual report published by the School of Agriculture contains a resume of activities of the Experiment Station, Extension Service, and Resident Teaching.

ENGINEERING SCHOOL BULLETINS

showing results of experimental and research projects in the School of Engineering are made available by the Department of Engineering Research.

ENGINEERING RESEARCH NEWS,

a quarterly publication of the Department of Engineering Research, is a review of current activities in the School of Engineering. Copies of these publications may be obtained from the Department.

TEXTILE PUBLICATIONS

pertaining to research may be secured from the Dean of the School of Textiles.

SUMMARY OF ENROLLMENT, 1955-56 — — — — —

RESIDENT STUDENTS

Regular Session	
Freshmen	1,751
Sophomores	1,138
Juniors	846
Seniors	748
Professionals	56
Graduates	456
Specials and Unclassified	133
Auditors	43
	5,181
Men	5,073
Women	108
	5,181

EXTENSION, CONFERENCES,
SHORT COURSES

July 1, 1955—June 30, 1956	
Extension Classes	1,985
Correspondence Courses	2,286
Short Courses and Con- ferences	5,384
Gaston Technical Institute	233
	9,888

ENROLLMENT BY CURRICULA, 1955-56 — — — — —

REGULAR SESSION

SCHOOL OF AGRICULTURE

Agriculture	
Agricultural Economics	
Agricultural Engineering	
Agri. and Biol. Chemistry	
Agronomy*	
Animal Ecology	
Animal Industry	
Botany	
Dairy Manufacturing	
Entomology	
Experimental Statistics	
Genetics	
Horticulture	
Mechanized Agriculture	
Plant Pathology	
Plant Physiology	
Poultry Science	
Rural Sociology	
Wildlife Cons. and Mgt.	
Zoology	
Total	

SCHOOL OF DESIGN

Architecture	216
Landscape Architecture	20
Total	236

SCHOOL OF EDUCATION

244 Agricultural Education	226
45 Industrial Arts Education	95
75 Industrial Education	2
25 Industrial Psychology	16
113 Ind. and Rural Recreation	119
2 Mathematics Education	19
120 Occup. Inf. and Guidance	14
6 Science Education	9
Total	500

SCHOOL OF ENGINEERING

8 Applied Mathematics	10
25 Ceramic	34
17 Chemical	182
15 Civil	428
3 Civil Engineering, Const. Op.	125
12 Construction	15
10 Electrical	644
38 Engineering Physics	17
12 Furniture Mfg. and Mgt.	47
865 Geological	32
Heating and Air Cond.	71
Industrial	175
Mechanical	513
Mechanical, Aero. Opt.	166
Nuclear	220
Total	2,679

SCHOOL OF FORESTRY

Forestry	130
Forest Management	72
Pulp and Paper Technology	18
Wood Production Merchandising	18
Wood Technology	13
Total	251

SCHOOL OF TEXTILES

Textile Chemistry	40
Textile Manufacturing	10
Textiles	411
Total	461

NOT CLASSIFIED

Unclassified Undergraduates, Auditors, and Special Students	148
Unclassified Graduates	38
Total	186

GRADUATE STUDENTS

Distribution of Graduate students by schools (included in above departmental classification):	
Agriculture	221
Education	78
Engineering	118
Forestry	18
Textiles	21
Total	456
GRAND TOTAL	5,181

OFFICERS

THE UNIVERSITY OF NORTH CAROLINA

The North Carolina State College of Agriculture and Engineering,
The University of North Carolina, Chapel Hill
The Woman's College of the University of North Carolina, Greensboro

BOARD OF TRUSTEES

Luther H. Hodges, *Governor, Chairman Ex-Officio*
Arch T. Allen, *Secretary*
Charles F. Carroll, *State Supt. of Public Instruction, Member Ex-Officio*
R. Gregg Cherry, *Life Trustee*
W. Kerr Scott, *Life Trustee*

TERM EXPIRING APRIL 1, 1957

Name	City	County
B. B. Everett	Palmyra	Halifax
Mrs. R. S. Ferguson	Taylorsville	Alexander
Harry A. Greene	Racford	Hoke
F. D. B. Harding	Yadkinville	Yadkin
Mrs. Albert Lathrop	Asheville	Buncombe
Kemp B. Nixon	Lincolnton	Lincoln
G. N. Noble	Trenton	Jones
Thomas J. Pearsall	Rocky Mount	Nash
H. L. Riddle, Jr.	Morganton	Burke
John C. Rodman	Washington	Beaufort
Roy Rowe	Burgaw	Pender
C. Wayland Spruill	Windsor	Bertie
Mrs. Charles W. Stanford	Chapel Hill	Orange
John P. Stedman	Lumberton	Robeson
C. Lacy Tate	Chadbourn	Columbus
H. P. Taylor	Wadesboro	Anson
W. Frank Taylor	Goldsboro	Wayne
Mrs. May L. Tomlinson	High Point	Guilford
F. E. Wallace	Kinston	Lenoir
D. Libby Ward	New Bern	Craven
James L. Woodson	Salisbury	Rowan

TERM EXPIRING APRIL 1, 1959

Name	City	County
Arch T. Allen	<i>Raleigh</i>	<i>Wake</i>
Mrs. Ed M. Anderson	<i>West Jefferson</i>	<i>Ashe</i>
William C. Barfield	<i>Wilmington</i>	<i>New Hanover</i>
Kemp D. Battle	<i>Rocky Mount</i>	<i>Nash</i>
F. Jack Blythe	<i>Charlotte</i>	<i>Mecklenburg</i>
Charles A. Cannon	<i>Concord</i>	<i>Cabarrus</i>
Mrs. Nancy Hall Copeland	<i>Murfreesboro</i>	<i>Hertford</i>
W. C. Harris, Jr.	<i>Raleigh</i>	<i>Wake</i>
Hugh G. Horton	<i>Williamston</i>	<i>Martin</i>
Dr. Paul E. Jones	<i>Farmville</i>	<i>Pitt</i>
A. H. London	<i>Pittsboro</i>	<i>Chatham</i>
Mrs. P. P. McCaiss	<i>Red Springs</i>	<i>Robeson</i>
John J. Parker	<i>Charlotte</i>	<i>Mecklenburg</i>
J. Hampton Price	<i>Leaksville</i>	<i>Rockingham</i>
Claude W. Rankin	<i>Fayetteville</i>	<i>Cumberland</i>
Dr. B. F. Royal	<i>Morhead City</i>	<i>Carteret</i>
F. S. Royster	<i>Oxford</i>	<i>Granville</i>
William P. Saunders	<i>Aberdeen</i>	<i>Moore</i>
Fred P. Saunders	<i>Kinston</i>	<i>Lenoir</i>
Dr. Shahane Taylor	<i>Greensboro</i>	<i>Guilford</i>
Oscar Vatz	<i>Fayetteville</i>	<i>Cumberland</i>
Herman Weil	<i>Goldsboro</i>	<i>Wayne</i>
Hill Yarborough	<i>Louisburg</i>	<i>Franklin</i>
J. R. Young	<i>Dunn</i>	<i>Harnett</i>

TERM EXPIRING APRIL 1, 1961

Name	City	County
Wade Barber	<i>Pittsboro</i>	<i>Chatham</i>
Frank H. Brown, Jr.	<i>Cullowhee</i>	<i>Jackson</i>
Victor S. Bryant	<i>Durham</i>	<i>Durham</i>
John W. Clark	<i>Franklinville</i>	<i>Randolph</i>
W. Lunsford Crew	<i>Roanoke Rapids</i>	<i>Halifax</i>
R. Floyd Crouse	<i>Sparta</i>	<i>Alleghany</i>
Horton Doughton	<i>Statesville</i>	<i>Iredell</i>
A. C. Edwards	<i>Hookerton</i>	<i>Greene</i>
Henry A. Foscue	<i>High Point</i>	<i>Guilford</i>
Robert M. Hanes	<i>Winston-Salem</i>	<i>Forsyth</i>
Dr. L. J. Herring	<i>Wilson</i>	<i>Wilson</i>
Mrs. J. B. Kittrell	<i>Greenville</i>	<i>Pitt</i>
John D. Larkins, Jr.	<i>Trenton</i>	<i>Jones</i>
Dr. Harvey B. Mann	<i>Lake Landing</i>	<i>Hyde</i>
C. Knox Massey	<i>Durham</i>	<i>Durham</i>
Reid A. Maynard	<i>Burlington</i>	<i>Alamance</i>
Glenn C. Palmer	<i>Clyde</i>	<i>Haywood</i>
Ediwn S. Pou	<i>Raleigh</i>	<i>Wake</i>
Grace Taylor Rodenbough	<i>Walnut Cove</i>	<i>Stokes</i>
A. Alex Shuford, Jr.	<i>Hickory</i>	<i>Catawba</i>
L. H. Swindell	<i>Washington</i>	<i>Beaufort</i>
Mrs. Charles W. Tillett	<i>Charlotte</i>	<i>Mecklenburg</i>
Carl V. Venters	<i>Jacksonville</i>	<i>Onslow</i>
J. Shelton Wicker	<i>Sanford</i>	<i>Lee</i>
E. Leigh Winslow	<i>Hertford</i>	<i>Perquimans</i>

Name	City	County
Mrs. Oscar Barker	Durham	Durham
H. D. Bateman	Wilson	Wilson
Irwin Belk	Charlotte, 400 Eastover Road	Mecklenburg
Mitchell Britt	Warsaw	Duplin
Mrs. Mebane H. Burgwyn	Jackson	Northampton
S. N. Clark, Jr.	Tarboro	Edgecombe
T. J. Collier	Bayboro	Pamlico
A. Roy Cox	Asheboro	Randolph
Eugene Cross	Marion	McDowell
Ben E. Fountain	Rocky Mount	Edgecombe
O. Max Gardner, Jr.	Shelby	Cleveland
John G. H. Geitner	Hickory	Catawba
George Watts Hill	Durham, 111 Corcoran Street	Durham
John H. Kerr, Jr.	Warrenton	Warren
M. C. Lassiter	Snow Hill	Greene
J. Spencer Love	Greensboro	Guilford
D. L. McMichael	Madison	Rockingham
Rudolph I. Mintz	Wilmington	New Hanover
Thomas O. Moore	Winston-Salem	Forsyth
Ashley M. Murphy	Atkinson	Pender
Mrs. B. C. Parker	Albemarle	Stanly
Thomas Turner	Greensboro	Guilford
John W. Umstead, Jr.	Chapel Hill	Orange
Sam L. Whitehurst	New Bern—Rt. 1	Craven
Macon M. Williams	Lenoir	Caldwell

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John W. Clark	John J. Parker
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Mrs. Virginia T. Lathrop	Mrs. May L. Tomlinson
Reid A. Maynard	J. W. Umstead, Jr.

NORTH CAROLINA STATE COLLEGE, OFFICERS OF ADMINISTRATION

ADMINISTRATIVE COUNCIL

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D. B. Anderson, B.A., M.A., Ph.D., *Associate Dean of the Graduate School*
M. E. Campbell, B.S., *Dean of the School of Textiles*
D. W. Colvard, B.S., M.S., Ph.D., *Dean of the School of Agriculture*
C. Addison Hickman, B.A., M.A., Ph.D., *Dean of the School of General Studies*
H. L. Kamphoefner, B.S., M.S., *Dean of the School of Design*
J. B. Kirkland, B.S., M.S., Ph.D., *Dean of the School of Education*
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COLLEGE POLICY

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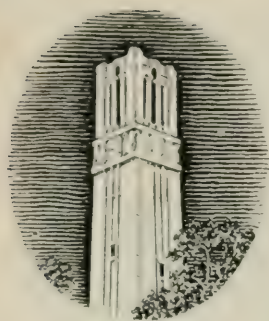
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1956-1958



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**FACULTY, ADMINISTRATIVE,
AND CLERICAL STAFFS**

**OCTOBER
1956**



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OF THE UNIVERSITY OF NORTH CAROLINA

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<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>
*Allgood, James	Ag. Ext.	209C Patterson	291	405 Union, Cary, N. C.
Averette, Fred G.	Soils	422 Williams	334	Route 2, Oxford, N. C.
Barker, Kenneth	Plant Path.	206 Gardner	310	2100 Hillsboro
*Batte, Edward G.	Animal Ind.	An. Dis. Lab.	486	1063 Nichols
Beatley, Janice C.	Botany	154 Gardner	267	1014½ Canterbury
*Beck, Frances R.	Nat'l Sci. Reg.	233 1911 Bldg.	265	2309 McMullan Circle
*Blanchard, D. D., Jr.	An. Ind.	An. Dis. Lab.	486	1217 Kent Rd.
*Blizard, Marion	Exp. Statistics	4A Patterson	386&387	18 Enterprise
Boardman, Elizabeth	Field Crops	102 Williams	222	B-5 Shelton Apt.
Brummett, Thelma	Occup. Inf. & Guid.	236 1911 Bldg.	478	Box 625, Chapel Hill, N. C.
*Burks, Edward C.	Ag. Inf.	120 Ricks	279 & 265	910 Faircloth
*Byrd, Dewitt, Jr.	Plant Path.	102 Gardner	380	Wendell, N. C.
*Campbell, Janet T.	Tob. Lit. Serv.	205 Library	477	4201 Western Blvd.
*Campbell, Patricia	Tex. Res.	22 Nelson Textile	288	114 Faircloth
*Chaplin, Jas. F.	Field Crops	429A Williams	334	UK 31 Verville
Chesnut, Roberta T.	Nat'l Sci. Reg.	233 1911 Bldg.	265	D3B Cameron Ct. Apts.
*Chew, Victor	Exp. Statistics	3 Patterson	386 & 387	2128 Mayview
*Coleman, Jean M.	Nat'l Sci. Reg.	233 1911 Bldg.	265	1104 Glenwood
Cornelison, Ann	Engr. Mechanics	242 Mann	317 & 404	304½ Forest Rd.
*Crigler, Henry T.	Textiles	303 Nelson Textile	287	
Culbreth, Winifred P.	Nat'l Sci. Reg.	233 1911 Bldg.	265	1326 Mordecai Dr.
*Daniel, Harry	Ag. Inf.	120 Ricks	279	5207 Melbourne Rd.
Davidson, Marjorie	Psychology	111A Tompkins	365	2402 Clark
*De, Rajendra K.	Entomology	126 Gardner	408	3107 Raymond
*Dean, Alfred	Rural Soc.	340 1911 Bldg.	465	201 Purefoy Rd., Chapel Hill
*Donoho, Clive W.	Horticulture	218 Kilgore	318	3002 Lewis Farm Rd.
*Dorsey, W. E.	An. Ind.	An. Dis. Lab.	486	3925 Western Blvd.
*Dunlap, F. Chris	Agriculture	111 Patterson	331	635A Daniels
*Edwards, John C.	Tex. Res.	B-37 Nelson Tex.	412	410 W. Jones
*Everleigh, Ailene B.	Soils	356 Williams	220	1117 Brooks
*Farrow, Elizabeth	Design	200 Brooks	438	2011½ Fairview Rd.
*Fish, Fred	Zoology	167 Gardner	239	825 Woodburn
*Flynn, John	Entomology	229 Gardner	384	Buffaloe Trailer Park
*Foard, Donald E.	Botany	262 Gardner	267	925 Tower St.
Forney, John K.	Rural Sociology	340 1911 Bldg.	465	Conner Dorm., Chapel Hill
Freyre, Raol	Physics	308 Daniels	353	Alumni Bldg.
*Gardner, Sue L.	Ag. Econ.	205 Patterson	358	2315 Van Dyke
*Giles, Jane H.	Botany	252 Gardner	267 & 379	College View Trailer Park
Glass, Rebecca S.	Soils	305 Williams	209	Route 4
*Hackler, W. C.	Min. Ind.	110 Page	249	3035 Lewis Farm Rd.
*Hammill, Shirley	Tex. Res.	B-50 Nelson Tex.	414	815C Daniels
*Hafley, William L.	Exp. Statistics	6 Patterson	386 & 387	UK 44 Verville
*Helguera, J. Leon	Hist. & Pol. Sci.	109 Winston	356	504½ North St., Chapel Hill
*Hendershott, C. H.	Horticulture	112 Kilgore	275 & 455	3010 Farrior Rd.
*Henderson, Peggy	Ag. Ed.	102 Tompkins	257	Rt. 5, Box 178
*Hiatt, Andrew	Botany	262 Gardner	267	2312 Grant Ave.
*Hinson, Doris R.	Horticulture	225 Kilgore	318	307 Chamberlain
*Hisada, Alice	Plant Path.	111 Gardner	373	Carv. N. C.
Jarratt, Allan	Rural Soc.	340 1911 Bldg.	465	Gold Dorm.
*Jenkins, John M.	Ind. Arts	106 Tompkins	258	2409 Greenway Ave.
*Kelly, Virginia	Exp. Station	104 Patterson	471	806 N. Blount St.
Kim, You Song	Min. Ind.	108 Page	249	306 Gold Dorm.
*Kiser, Lila	Tex. Res.	22 Nelson Textile	288	604C Smedes Pl
*Kline, David M.	Plant Path.	204 Gardner	382	2717 Oberlin Rd.

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>
*Kubin, Julius	Tex. Res.	B-46 Nelson	414	118 N. Boylan
Lewis, Anne	Zoology	168 Gardner	239	215 N. Blount
*Liggins, Donald W.	Tex. Res.	325 Nelson Textile	413	133 Prospect
*Lindsey, Marvin F.	Exp. Statistics	1-B Patterson	386 & 387	3008 Leonard
Loesch, P. J.	Field Crops	106A Williams	222	2412 Everett Ave.
*McCracken, R. J.	Soils	360 Williams	220	2328 Grant Ave.
*McGovern, Troyce D.	Ind. Arts	106 Tompkins	258	334 Angier Ave.
*McKean, Catherine S.	Serials	Library	344	3429 Redbud Lane
*McKinney, Muncy B.	Ag. Econ.	215 Patterson	469	Rt. 1, Wilson's Trailer P.
*McLean, Lucy S.	Exp. Statistics	4A Patterson	386 & 387	418 Wayne Dr.
*McPherson, W. W.	Ag. Econ.	203 Patterson	358	2114 Buckingham
*Maine, Ellsworth	Plant Path.	206 Gardner	310	2634 Kilgore St.
Mallios, William	Exp. Statistics	12 Patterson	386 & 387	211 Gold Dorm
Mia, Abdul Jabbar	Botany	261 Gardner	267	130 Woodburn Rd.
*Middleton, G. K.	Field Crops	118 Williams	222	2817 Mayview
*Milton, Charles R.	Psychology	112B Tompkins	401	213 Dennis
*Murray, Edward A.	Textiles	115 Nelson Textile	420	3200 Bedford Ave.
*Neal, B. G.	Ag. Engr.	New Ag. Engr. Bldg.	475	1510 Simpkins St.
*Neunzig, H. H.	Entomology	237 Gardner	384	
*Oliver, Faith	Soils	351 Williams	363	207 Poplar St.
*Overton, E. Glenn	Registration	12 Holladay	205 & 219	1024 Minerva Ave., Durham
*Parker, Mattie Erma	Hist. & Pol. Sci.	15 Winston	356	Darien Dr.
*Parker, Robert W.	Ag. Inf.	113 Ricks	457	2511 Stafford Ave.
Parker, Wade T.	Engr. Mechanics	248 Mann	317	107 Chamberlain St.
Pasour, C. E.	Ag. Econ.	210 Patterson	469	Gold Dorm.
Pate, Donald	Poultry	109 Scott	366	2905 Wade Ave.
*Perry, Margaret	Soils	226 Williams	345	2403 Country Club Ct.
*Pinney, Edward L.	Hist. & Pol. Sci.	115 Winston	356	113 Maxwell Rd., Chapel H.
*Poston, Hugh A.	Central Res. Station	Western Blvd.	TE 3-5446	3614 Western Blvd.
Prince, Harold L.	Genetics	353 Gardner	385	Route 4
*Ragland, Irene	Soils	356 Williams	363	3314 Pollock Pl.
*Riggs, Robert	Plant Path.	200 Gardner	310	Box 4405 State Coll. Sta.
*Sasser, Sybil	Tex. Res.	B-48 Textile	416	1508 Frank St.
Shearin, Marjorie	Ag. Ext.	214 Ricks	242	3413 Redbud Lane
*Shelton, James	Soils	351 Williams	209	2338 McMullan Circle
*Smith, Vara	Psychology	124 Tompkins	286	Wilders Grove
*Snedecor, George W.	Exp. Statistics	112 Patterson	313 & 335	2114 Buckingham Rd.
*Stirewalt, Hazel	Tex. Res.	B-48 Textile	416	2319 Grant Ave.
*Stout, Roy G.	Ag. Econ.	201D Patterson	355	2325 Grant Ave.
Stroud, George	Tex. Res.	140 Textile	416	P. O. Box 23, Youngsville,
*Stubbs, Audrey M.	Genetics	353 Gardner	385	3204 Childers
Swift, Eleanor D.	Modern Lang.	205 Peele	231	Route 4
*Thigpen, M. E.	Ag. Econ.	214 Patterson	308	718 Rosemont Ave.
*Thompson, Hannis W., Jr.	Elec. Engr.	427 Daniels	395	2804 Barmettler St.
*Troyer, James R.	Botany	260 Gardner	267	2310 Van Dyke
*Ulburg, L. C.	An. Ind.	111 Polk	305 & 268	
*Van der Vaart, H. R.	Exp. Statistics	101E Patterson	313 & 335	218 Chamberlain
*Verreault, Peggy	Ag. Econ.	201A Patterson	355	812 Henderson Rd.
*Volk, R. J.	Soils	383C Williams	363	2256 Circle Dr.
*Wakeley, Sue	Agriculture	111 Patterson	362	1213 Dixie Trail
*Wallace, Mary A.	Business	105 Holladay	295	509 Cole St.
Waller, Marcus	Psychology	112B Tompkins	401	Chapel Hill, N. C.
*Wentz, Patricia	Circulation	Library	372	12 Maiden Lane
Wiggins, R. E.	Textiles	307 Textile	419	1512 Fairview Rd.
*Wilkinson, Helen	Rural Soc.	340 1911 Bldg.	465	2004 Smallwood Dr.
*Wise, Milton B.	An. Ind.	214 Polk	326	
*Wood, Alton E.	Genetics	385 Gardner	385	Route 3
*Young, D. A., Jr.	Entomology	326 Gardner	409	
Young, James N.	Rural Soc.	338 1911 Bldg.	312	1220 Filmore
*Young, Talmage B.	Ind. Arts	106 Tompkins	258	1404 Crest Rd.
*Zobel, Bruce	Forestry	252 Kilgore	270	

* Married

SUPPLEMENTAL DIRECTORY LISTING—1956-57

FACULTY AND STAFF CHANGES

Name	Dept.	Office	Ext.	Address
Anderson, Winifred	Tex. Res.	21 Textile	288	3320 Ruffin St.
*Baker, W. Donald	Zoology	167 Gardner	239	1228 Banbury
*Bartholomew, W. V.	Soils	358 Williams	220	618 Stacy St.
*Bean, Carolyn L.	Soils	222 Williams	470 & 488	2323 Grant Ave.
*Blizard, Warren E.	Mech. Engr.	222 Broughton	447	18 Enterprise
*Boles, Ralph C.	Mathematics	222 Tompkins	228	1311 Crabapple Lane
*Borg, Alfred F.	Botany	213 Gardner	379	1235 Onslow Rd.
*Bradford, E. H.	Tex. Res.	352 Textile	413	Galax Dr., Rt. 6
*Bridge, Gladys G.	Registration	10 Holladay	219 & 351	Wake Forest, N. C.
Butler, Patrick C.	Soils	307 Williams	209	2714 Rosedale
*Casady, R. B.	Zoology	355 Gardner	445	Rt. 2
*Cates, David M.	Tex. Res.	10 Textile	288	2416 Greenway Terrace
*Clarke, Alison M.	Economics	230 1911 Bldg.	333	3413 Churchill Rd.
*Cook, H. D.	Pulp & Paper Tech.	Western Blvd.	485	1820 White Oak Rd.
*Craig, Harris B.	An. Ind.	215 Polk	276	Rt. 4, Buck Jones Rd.
*Crawford, Louise	Registration	10 Holladay	219 & 351	Apt. 33-G Vetville
*Crawford, Ora	Exp. Station	104 Pat. 444 & TE 2-6526		2209 Sheffield Rd.
*Davis, W. H.	Field Crops	114 Williams	222	UK 34 Vetville
*Dayberry, Charles D.	Tex. Res.	140 Textile	416	603 N. Blount St.
Drenowatz, Margaret	Tob. Lit. Serv.	205 Library	477	D-1 Shelton Apts.
Erdman, Howard E.	Genetics	353 Gardner	385	202 Gold Dorm.
Farrier, Maurice	Entomology	340 Gardner	409	Box 44, Route 6
*Fitts, J. W.	Soils	210 Williams	470 & 488	1021 Gardner St.
*Foradori, George T.	Exp. Statistics	120E Patterson	TE 3-2454	UK 3 Vetville
Giles, Jose	Genetics	351 Gardner	385	205 Gold Dorm.
*Glover, Jo Ann N.	Design	200 Brooks	343	3410 Hillsboro
*Goldthwait, C. F.	Textiles	126 Textile	413	2112 Ridge Rd.
Guarnieri, Guiseppe	Design	200D Brooks	343	118 Woodburn Rd.
Ham, N. B.	Economics	230 1911 Bldg.	333	Rt. 5
Harden, Kath	Registration	10 Holladay	219 & 351	1615 Hillsboro St.
*Harkema, Reinard	Zoology	363 Gardner	445	1430 Chester Rd.
*Harrell, George O.	Min. Ind.	104 Page	249	1808 Wilshire Ave.
Hefti, Heinz	Tex. Res.	126 Textile	413	405 Brooks Ave.
Hirschmann, Hedwig	Plant Path.	2 Gardner	473	11 Hillcrest Rd.
*Hitchings, R. G.	Pulp & Paper Tech.	Western Blvd.	485	3427 Redbud Lane
*Howard, Margaret F.	Circulation	Library	372	2811½ Mayview Rd.
*Jackle, Roger W.	Tex. Res.	B-48 Textile	416	2811 Bedford
Jackson, W. A.	Soils	366 Williams	363	2714 Rosedale
*Johnson, E. Sigurd	Indus. Engr.	328 Riddick	307	1806 Oberlin Rd.
*Jones, Berry E.	Tex. Res.	325 Textile	413	Rt. 1, Cary, N. C.
*Kelman, Arthur	Plant Path.	3 Gardner	473	3430 Redbud Lane
Kendrick, Alma Mae	Registration	12 Holladay	205 & 219	H-2 Shelton Apts.
*LaChance, Leo E.	Genetics	353 Gardner	385	117 Cox Ave.
*Lee, John F.	Mech. Engr.	309 Broughton	448	409 Furches St.
*Libby, C. E.	Pulp & Paper Tech.	Western Blvd.	485	1430 Brooks
Lin, Clara	Soils	383 Williams	363	3205 Hillsboro
McArthur, Anne	Tex. Res.	B-48 Textile	416	226 Chamberlain
*Magee, Aden C., III	An. Ind.	310 Polk	241	2320 Clark, Apt. F
*Mangum, G. Dent	Tex. Res.	B-52 Textile	293 & 414	P. O. Box 5301, S. C. Sta.
*Marks, Olen F.	Textiles	118 Textile	41	Pine Dr., Rt. 6
*Merritt, Ernest C.	Tex. Res.	325 Textile	413	315 Marsh Ave.
*Miller, Gene W.	Botany	262 Gardner	379	UK 33 Vetville
Mills, Lucy Tuck	Registration	13A Holladay	351	3320 Ruffin St.
*Mochrie, Richard D.	An. Ind.	111 Polk	305	116 Byrum, Cary
*Montenegro, Enrique	Design	103 Brooks	438	3211 Churchill Rd.
*Moore, Frank H.	English	7-9 Winston	325	3513 Leonard St.

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>
*Ogren, Herman A.	Zoology	355A Gardner	445	923 Tower St.
Pinkerton, Claire R.	Registration	13A Holladay	351	2502 Vanderbilt
Poole, Joyce	Grad. School	145 Gardner	429	500 W. Park Dr.
*Raab, Kenneth D.	Registration	13C Holladay	205 & 219	Garner, N. C.
*Ramsev, Harold A.	An. Ind.	302 Polk	241	Rt. 1, Cary, N. C.
Reid, Elbert	Foundations	101 Holladay	253	111 Berkshire Rd.
*Reitzer, Ladislas F.	Hist. & Pol. Sci.	111 Winston	356	9 Ashe St.
Rogers, Jacqueline	Soils	222 Williams	470 & 488	3314 Pollack Pl.
*Ross, John P.	Plant Path.	209 Gardner	310	225 Buck Jones Rd.
*Sanderford, Mavis D.	Agriculture	115 Patterson	211	102 Horne St.
*Sims, Barbara Anne	Engr. Res.	236 Riddick	436	219 Park Ave.
*Stanton, Mary S.	Exp. Statistics	110 Patterson	375	2502 Clark Ave.
*Stroup, Rose Marie	Registration	10 Holladay	219 & 351	P-3 Country Club Homes
Taylor, Maybelle	Pulp & Paper Tech.	Western Blvd.	485	1013½ Mordecai Dr.
*Teszler, Otto	Tex. Res.	22 Textile	288	2303 Churchill Rd.
Tolley, George S.	Ag. Econ.	215C Patterson	469	902 Lake Boone Trail
*Tompkins, E. H.	Engr. Res.	233 Riddick	436	106 Pogue St.
*Toussaint, W. D.	Ag. Econ.	215A Patterson	469	Rt. 6
*Vaughan, Linwood H.	Tex. Res.	325 Textile	413	Franklinton, N. C.
Wessling, Wolfgang	Genetics	351 Gardner	385	3402 Hillsboro Rd.
*White, Ellen B.	Ag. Ext.	101 Ricks	244	1905 Park Dr.
*Whitfield, John K.	Mech. Engr.	315 Broughton	448	2377 McMullen Circle
Woodall, Mrs. Clyde H.	Stu. Aff.	11 Holladay	219	G-2 Country Club Homes

* Married

FACULTY SENATE STANDING COMMITTEES, 1957

AGENDA COMMITTEE

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R. J. Monroe, Vice Chairman
L. W. Seegers, Secretary

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J. F. Seely
H. E. Speece

SPECIAL COMMITTEE, 1957

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J. W. Pou, Chairman
G. S. Abshier
R. C. Bullock
J. S. Doolittle
J. F. Seely

1956—1957

DIRECTORY

**NORTH CAROLINA STATE COLLEGE OF
AGRICULTURE AND ENGINEERING OF THE**
UNIVERSITY OF NORTH CAROLINA

LISTING
**FACULTY, ADMINISTRATIVE AND
CLERICAL STAFFS**



STATE COLLEGE STATION
RALEIGH



- 1 to 24
- 25 to 51
- 52 to 71

BROOKS

GARDNER

POGUE

HILL STREET

U.S. HIGHWAY 1

CHAMBERLAIN

ENTERPRISE

MAIDEN LANE

NEILL

LOAN ALLEN DRIVE

QUEEN AVENUE

U.S. HIGHWAY 1

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1. Holladay Hall	25. Eng. Research	49. Kilgore Hall
2. Alumni Hall	26. Riddick Lab. Bldg.	50. Mangum Hall
3. Welch Hall	27. Electrical Eng.	51. Textile Building
4. Gold Hall	28. Civil Engineering	52. Clark Hall
5. Fourth Hall	29. Daniels Hall	53. Berry Hall
6. Brooks Hall	30. Withers Hall	54. Bagwell Hall
7. First Hall	31. 1911 Building	55. Becton Hall
8. Watauga Hall	32. Ricks Hall	56. Thompson Gym
9. Peele Hall	33. Zoology Building	57. Parking Area
10. Pullen Hall	34. Nuclear Reactor	58. Reynolds Coliseum
11. Primrose Hall	35. Patterson Hall	59. Alexander Hall
12. Syme Hall	36. U. S. Post Office	60. Turlington Hall
13. Y.M.C.A.	37. Diesel Eng. Bldg.	61. Owen Hall
14. Leazer Hall	38. Broughton Hall	62. Tucker Hall
15. Tompkins Hall	39. Polk Hall	63. Printing Shop
16. Field House	40. D. H. Hill Library	64. Vetville
17. Riddick Field	41. U. S. Bureau of Mines	65. Track Bleachers
18. Ceramics	42. Agronomy Greenhouses	66. Baseball Field
19. Power Plant	43. Williams Hall	67. Tennis Courts
20. Laundry	44. Gardner Hall	68. U. S. N. R. Armory
21. Warehouse	45. Student Union	69. N. Y. A. Group
22. Park Shops	46. Scott Hall	70. Forestry Lab.
23. Page Hall	47. Bot. & Zool. Gr. Hus.	71. Trailer Park
24. Winston Hall	48. Horticulture Gr. Hus.	

OFFICERS OF ADMINISTRATION

For the Academic Year 1956-57
THE CONSOLIDATED UNIVERSITY
N. C. State College

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Acting Provost William M. Whyburn
Vice President and Finance Officer W. D. Carmichael, Jr.
Acting Business Officer and Treasurer A. H. Shepard

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Dean of Student Affairs, Secretary J. J. Stewart
Business Manager J. G. Vann
Director, Development and Public Relations L. L. Ray
Dean of the Faculty John W. Shirley
Dean, School of Agriculture D. W. Colvard
Dean, School of Design H. L. Kamphoefner
Dean, School of Education J. B. Kirkland
Dean, School of Engineering J. H. Lampe
Dean, School of Forestry R. J. Preston
Dean, School of General Studies C. A. Hickman
Dean, School of Textiles M. E. Campbell
Acting Dean, Graduate School W. J. Peterson

ADMINISTRATIVE OFFICERS

College, Schools, and Departments

<i>Department</i>	<i>Head</i>	<i>Office</i>	<i>Ext.</i>
CHANCELLOR	C. H. Bostian	"A" Holladay Hall	216
DEAN OF THE FACULTY	J. W. Shirley	110 Holladay Hall	466
BUSINESS MANAGER	J. G. Vann	105 Holladay Hall	295
DIRECTOR OF FOUNDATIONS	L. L. Ray	"A" Holladay Hall	322
DEAN OF STUDENT AFFAIRS	J. J. Stewart	206 Holladay Hall	456
SCHOOL OF AGRICULTURE			
		<i>Office</i>	<i>Ext.</i>
Dean	D. W. Colvard	115 Patterson	211
Director of Instruction	V. A. Rice	111 Paterson	331
Director of Extension	D. S. Weaver	104 Ricks	213
Asst. Dir. of Extension	R. W. Shoffner	106 Ricks	213
Asst. Dir. of Extension	C. B. Ratchford	110 Ricks	213
Director of Research	R. L. Lovvorn	103 Patterson	315 & TE 2-6526
Asst. Dir. in chg. of Tobacco Research	W. E. Colwell	104 Patterson	444
Asst. Dir. of Research	H. A. Stewart	102 Patterson	471
Agricultural Economics	H. B. James	216-18 Patterson	308
Farm Management Extension	W. L. Turner	220 Patterson	306
Farm Marketing Extension	J. M. Curtis	220-E Patterson	291
Agricultural Engineering	G. W. Giles	203 Mangum	405
Agricultural Engr. Ext.	H. M. Ellis	316 Ricks	274 & 389
Agricultural Information	O. B. Copeland	112 Ricks	472 & TE 2-6541
Animal Industry	J. W. Pou	117 Polk	320 & 431
Animal Husbandry Section	E. R. Barrick	216 Polk	276 & 326
Animal Husbandry Extension	Jack Kelley	203 Polk	269
Animal Nutrition Section	G. H. Wise	304 Polk	241
Dairy Husbandry Section	J. E. Legates	115 Polk	268
Dairy Extension	George Hyatt, Jr.	102 Polk	321 & 277
Dairy Manufacturing Section	W. M. Roberts	204 Polk	371
Veterinary Section		Animal Disease Bldg.	TE 4-7336-7
Biological Sciences, Div. of		145 Gardner	429
Botany	H. T. Scofield	250 Gardner	267
Entomology	C. F. Smith	142 Gardner	408
Entomology Extension	George D. Jones	140 Gardner	201
Genetics	S. G. Stephens	353 Gardner	385
Plant Pathology	D. E. Ellis	114 Gardner	373
Plant Pathology Extension	Howard R. Garriss	9 Gardner	336
Zoology	F. S. Barkalow, Jr.	156 Gardner	239
Chemistry	W. J. Peterson	107 Withers	266
Experimental Statistics	J. A. Rigney	112 Patterson	313 & 335
Field Crops	P. H. Harvev	258 Williams	217
Agronomy Extension	E. R. Collins	252 Williams	294
4-H Club (Extension)	L. R. Harrill	200 Ricks	214
Home Demonstration (Extension)	Ruth Current	101-A Ricks	244
Clothing	Julia McIver	300 Ricks	221
Family Relations	Corinne J. Grimsley	306 Ricks	221
Foods and Nutrition	S. Virginia Wilson	213 Ricks	354
Home Management	Mamie N. Whisnant	305 Ricks	285
Home Marketing	Rose E. Bryan	214 Ricks	242
Housing & House Furnishings	Pauline E. Gordon	210 Ricks	462
Horticulture	F. D. Cochran	120 Kilgore	275 & 455
Horticulture Extension	John H. Harris	235 Kilgore	296
Poultry Science	E. W. Glazener	120 Scott	280
Poultry Extension	C. F. Parrish	211 Scott	377
Program Planning (Extension)	F. S. Sloan	109 Ricks	292
Rural Sociology	C. H. Hamilton	339 1911 Bldg.	312
Soils	J. W. Fitts	210 Williams	470

SCHOOL OF DESIGN

Dean	H. L. Kamphoefner	250 & 343
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SCHOOL OF EDUCATION

Dean	J. Bryant Kirkland	119 Tompkins	256
Agricultural Education	C. C. Scarborough	103 Tompkins	257
Industrial Arts	Ivan Hostetler	106 Tompkins	258
Industrial & Rural Recreation	Thomas I. Hines	Field House	350
Occup. Infor. & Guidance	Roy N. Anderson	224 1911 Bldg.	478
Psychology	Howard G. Miller	123 Tompkins	286

SCHOOL OF ENGINEERING

Dean	J. H. Lampe	229 Riddick	216
Director of Instruction	W. E. Adams	232 Riddick	332
Chemical Engineering	E. M. Schoenborn, Jr.	113 Riddick	301
Civil Engineering	Ralph E. Fadum	354 C. E. Bldg.	432
Electrical Engineering	Goerge B. Hoadley	320A Daniels	236
Engineering Mechanics	G. Wallace Smith	240 C. E. Bldg.	317
Engineering Research	N. W. Connor	124 Riddick	248 & 423
Industrial Engineering	R. G. Carson	328 Riddick	307
Mathematics	H. A. Fisher	201 Tompkins	227
Mechanical Engineering	Karl P. Hanson	211 Broughton	246
Mineral Industries	W. W. Austin	109 Page	249
Nuclear Reactor	Raymond L. Murray	31 Nuclear Reactor	393
Physics	A. C. Menius, Jr	5 Nuclear Reactor	229

SCHOOL OF FORESTRY

Dean	R. J. Preston	160 Kilgore	270 & 282
Forestry (Extension)	John L. Gray	264 Kilgore	407
Forest Management	T. E. Maki	152 Kilgore	406
Lumber Products Mfg.	Roy M. Carter	158 Kilgore	270
Pulp Technology	C. E. Libby	Pulp & Paper Lab.	TE 4-2235
Wood Products Laboratory	James S. Bethel	166 Kilgore	282

SCHOOL OF GENERAL STUDIES

Dean	C. Addison Hickman	103 Peele	223
Economics	Clark L. Allen	102 Peele	333
English	Lodwick Hartley	118B Winston	325
History & Political Science	Preston W. Edsall	114 Winston	356
Modern Languages	George W. Poland	205 Peele	231
Physical Education	Paul H. Derr	Frank Thompson Gym	218
Philosophy & Religion	W. N. Hicks	204 Peele	374
Social Studies	George A. Gullette	212 Winston	200
Sociology	Sanford Winston	202 Peele	374

SCHOOL OF TEXTILES

Dean	Malcolm E. Campbell	101 Textile Bldg.	273 & 422
Director of Research	William A. Newell	107 Textile	273
Fabric Development	B. L. Whittier	103 Textile	289
Fiber & Yarn Technology	Elliot B. Grover	111 Textile	327
Knitting Technology	W. E. Shinn	104 Textile	289
Machine Design	C. M. Asbill, Jr.	117 Textile	420
Placement	G. H. Dunlap	110 Textile	421
Textile Chemistry	H. A. Rutherford	21 Textile	341

THE GRADUATE SCHOOL

Acting Associate Dean	W. J. Peterson	145 Gardner	429
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ALUMNI AFFAIRS

Director	H. W. Taylor	Alumni Bldg.	252 & TE 3-1010
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ATHLETICS

Director & Golf Coach	Roy B. Clogston	102 Coliseum	TE 2-2407
Asst. Dir. & Swimming Coach	Willis R. Casey	100 Coliseum	TE 2-2407
Baseball Coach	Victor C. Sorrell	106 Coliseum	TE 4-2241
Baseball Coach (Freshman)	Jennings B. Edwards	Gymnasium	218
Basketball Coach	Everett N. Case	120 Coliseum	TE 4-1881
Football Coach	Earle L. Edwards	104 Coliseum	TE 2-6931
Soccer & Tennis Coach	John F. Kenfield, Jr.	Gymnasium	218
Track Coach	Paul Derr	Gymnasium	218
Publicity Director	Bill F. Hensley	124 Coliseum	TE 3-5620
Wolfpack Club Director	Harry E. Stewart	108 Coliseum	TE 4-2241

BUSINESS OFFICE

Business Manager	J. G. Vann	105 Holladay	295
Asst. Business Manager	W. M. Murray	"B" Holladay	298
Cashier	J. Curtis Hall	"B" Holladay	278
Personnel Officer	James R. Swiger	Primrose Hall	481

CAFETERIA

Director	A. G. Sutherland, Jr.	Leazar Hall	TE 3-4825-6
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COLISEUM

Director	Roy B. Clogston	102 Coliseum	TE 2-2407
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COLLEGE EXTENSION

Director	E. W. Ruggles	118 1911 Bldg.	238 & TE 4-3333
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DORMITORY RENTAL

Supervisor	James S. Fulghum, Jr.	4 Holladay	349
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INSTITUTE OF STATISTICS

Director	Gertrude M. Cox	110 Patterson	375
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LIBRARY, D. H. HILL

Director	Harlan C. Brown	130 Library	259
Catalog Dept.	Martha Foy Lineberry	108 Library	344
Circulation Dept.	Katherine A. Edsall	108 Library	372
Documents Dept.	Mary E. Poole	118 Library	398
Order Dept.	Anne L. Turner	113 Library	344
Reference Dept.	Mrs. Ac McGalliard	122 Library	398
Design Library	Mrs. Harve Lyons	201 Brooks Hall	301
Textile Library	Katherine McDiarmid	112 Textile Bldg.	421

MAINTENANCE AND OPERATIONS

Director	J. McCree Smith	101 Morris Bldg.)
Asst. Director	Macon R. Rowland	102 Morris Bldg.)
Central Stores	A. H. Adams	Morris Bldg.) 463
Shops	R. W. Mayton	Morris Bldg.) 392
Power Plant	Frank R. Kennedy	Power Plant) TE 3-8528
Grounds Supt.	John G. Duncan	Morris Bldg.) 328
Transportation Supt.	Leon I. Parrish	Morris Bldg.) 234
Asst. College Engineer	Robert E. Fite	Morris Bldg.) 451
Property	John E. Higgins	Morris Bldg.)
Chief Clerk	Catherine L. Raby	Morris Bldg.)
Laundry	Joseph R. Gower	Laundry	283

NEWS BUREAU

Director	Rudolph Pate	101 Holladay Hall	253
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N. C. CROP IMPROVEMENT ASSOCIATION

Director	John C. Rice	193A Williams	207 & TE 4-7542
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N. C. FOUNDATION SEED PRODUCERS, INC.

Manager	R. W. McMillan	124 Williams	TE 2-1573
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PRINT SHOP

Manager	L. B. Phillips	Print Shop Bldg.	281 & TE 3-4151
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PURCHASING DEPT.

Purchasing Agent	W. L. Fleming	200 Morris Bldg.	230 & 459
Asst. Purchasing Agent	Mrs. Baye Sumner	200 Morris Bldg.	230

STUDENT AFFAIRS

Dean	J. J. Stewart	206 Holladay	456
Dean of Students	E. L. Cloyd	9 Holladay	215
Student Activities	Banks C. Talley, Jr.	207 Holladay	370
College Union			
Director	G. O. T. Erdahl	216 College Union	TE 4-7310
Asst. Director	Richard S. Heaton	214 College Union	TE 4-7310
Social Director	Paul K. Durrett	270 College Union	378
Craft Shop Director	Martha G. Robinson	College Union	378
Food Service Director	James N. Economys	College Union	TE 4-7310
Information Desk	Corinne S. Philbrick	College Union	TE 4-7310
Reservations	Neill S. Briggs	216 College Union	TE 4-7310
Music Activities	C. D. Kutschinski	114 1911 Bldg.	251
Student Publications	Carolyn W. Lane	313 1911 Bldg.	TE 3-4810
Y. M. C. A.	Oscar B. Woodydrige	Y. M. C. A.	TE 2-7184

Admissions & Registration

Director	Kenneth D. Raab	13C Holladay	219
Admissions Office	-----	14 Holladay	205
Current Records & Information	-----	-----	219
Senior Records & Permanent Files	-----	-----	351
Student Personnel	Lyle B. Rogers	201 Holladay	397 & 224
College Counseling Center	-----	202 Holladay	397
Scholarships & Financial Aid	C. W. Wilkerson	206 Holladay	460
Student Housing	N. B. Watts	207 Holladay	434
Infirmary	Dr. J. J. Combs	Clark Hall	TE 2-7615
Military: Air Science	Col. James F. Risher	145 Coliseum	314 & TE 4-5161
Military Science & Tactics	Col. R. R. Middlebrooks	154 Coliseum	233

STUDENTS SUPPLY STORES

General Manager	L. L. Ivey	Y.M.C.A. Bldg.	225 & TE 2-3674
Asst. Manager	M. H. Wheless	Y.M.C.A. Bldg.	225 & TE 2-3674
Watauga Book Shop	C. L. Chambers	Watauga Hall	337

TELEPHONE EXCHANGE

Installation Officer	Mrs. Baye Sumner	200 Morris Bldg.	230
Supervisor	Bessie B. Turner	117 Winston	0
Operator	Annie P. Cooke	117 Winston	0
Operator	Rosa G. Thompson	117 Winston	0

TELEVISION

Director	Roy J. Johnston	WUNC-TV Bldg.	TE 4-6262
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VETERANS ADMINISTRATION

Training Specialist	Carlisle R. King	106 1911 Bldg.	TE 3-4679
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VETERANS HOUSING

Manager of Vetville	H. H. Hutchinson	UK 5 Vetville	TE 2-4306
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VISUAL AIDS

Head	Landis S. Bennett	3 Ricks	458
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COLLEGE COMMITTEES FOR 1956-57

ATHLETICS*

- H. A. Fisher, Chairman
- H. B. James, Vice-Chairman
- W. W. Austin, Senate
- M. E. Campbell
- J. B. Kirkland

BUILDINGS AND GROUNDS

- C. L. Mann, Chairman
- E. G. Thurlow, Senate
- L. O. Armstrong
- Horacio Caminos
- J. B. Gartner
- C. H. Kahn
- W. W. Woodhouse
- J. M. Smith, Advisory

CAFETERIA ADVISORY *

- T. A. Martinsek, Chairman
- S. C. Mayo

Students:

- R. P. Kennel
- J. F. Warlick

CAMPUS STORES ADVISORY

- W. H. Pierce, Chairman
- G. B. James
- O. G. Thompson

Students:

- E. L. Forbes
- I. B. Hawkins
- F. E. Minter

COLISEUM ADVISORY

- H. B. James, Chairman
- R. C. Bullock, Senate
- R. J. Preston
- J. J. Stewart

Students:

- J. Nolan

COLLEGE EXTENSION

- C. A. Hickman, Chairman
- T. E. Maki, Senate
- R. C. Bryant
- R. E. Fadum
- J. W. Pott

COURSES AND CURRICULA *

- C. E. Bishop, Chairman
- R. C. Bryant, Secretary
- W. A. Reid, Senate
- L. C. Clarke
- Ivan Hostetler
- B. M. Olsen
- H. A. Rutherford
- W. D. Stevenson

FACULTY HOSPITALITY AND ORIENTATION

- C. I. Foster, Chairman
- K. L. Barkley, Secretary, Senate
- J. A. Adams
- R. M. Carter
- E. L. Harrisberger
- J. A. Porter
- W. A. Reid

GOVERNMENT

- G. B. Hoadley, Chairman
- G. Matsumoto, Secretary
- W. S. Barham
- K. O. Beatty, Jr.
- A. F. Borg
- C. I. Foster
- A. C. Hayes
- C. E. Libby

GRADUATE SCHOOL, ADMINISTRATIVE BOARD

- W. J. Peterson, Chairman
- E. M. Schoenborn, Senate
- J. S. Bethel
- W. E. Colwell
- J. A. Rigney
- H. A. Rutherford
- Newton Underwood

GROUP INSURANCE AND FACULTY WELFARE

- C. H. Hamilton, Chairman
- G. H. Wise, Vice-Chairman
- R. N. Anderson
- J. S. Doolittle
- A. C. Hayes
- D. M. Peterson
- C. B. Shulenberg
- J. R. Swiger
- W. L. Turner

HISTORY OF THE COLLEGE

- A. M. Fountain, Chairman
- Stuart Noblin, Vice-Chairman
- L. W. Barnhardt
- H. C. Brown
- J. K. Coggin
- H. W. Taylor

LIBRARY

- L. C. Hartley, Chairman
- E. W. Glazener, Senate
- K. O. Beatty, Jr.
- Cecil Elliott
- D. E. Ellis
- A. J. Goetze
- W. A. Newell
- M. Schmitt
- H. C. Brown, Advisory

O. MAX GARDNER AWARD

- P. W. Edsall, Chairman
- F. D. Cochran, Senate
- J. E. Legates
- P. E. Moose
- H. P. Williams

PATIENTS

- J. G. Vann, Chairman
- J. S. Bethel
- N. W. Comer
- R. L. Lovvorn
- W. A. Newell

READMISSIONS

H. L. Kamphoefner, Chairman
K. D. Raab, Secretary
W. E. Adams
C. A. Hickman
J. B. Kirkland
J. A. Porter
R. J. Preston
V. A. Rice

REFUND OF FEES

E. L. Cloyd, Chairman
C. B. Shulenberger
— J. G. Vann

RESEARCH

W. A. Newell, Chairman
K. L. Barkley, Senate
J. S. Bethel
W. J. Peterson
E. M. Schoenborn

SAFETY AND HEALTH FOR NUCLEAR REACTOR

W. J. Peterson, Chairman
W. W. Austin, Vice-Chairman
H. J. Evans
G. B. Hoadley
A. C. Menius
R. L. Murray
N. L. Nemerow
Newton Underwood
J. H. Lampe, *Ex-Officio*

SCHOLARSHIP AND STUDENT AID

R. E. Fadum, Chairman
L. B. Rogers, Secretary
T. I. Hines, Senate
R. B. Clogston
J. H. Cox
J. S. Doolittle
G. H. Dunlap
K. F. McKean
C. K. Slocum
F. G. Warren

STUDENT ORIENTATION

R. L. Lovvorn, Chairman
L. B. Rogers, Secretary
C. H. Asbill, Jr., Senate
R. N. Anderson
W. W. Austin

P. H. Derr

G. H. Dunlap

Roy Gussow

C. C. Robinson

C. K. Slocum

Students:

D. D. Yager, Co-Chairman

W. B. Ball

F. I. Joseph

P. C. Kannan

B. G. Little

J. M. Nolan

W. J. Reavis

R. K. Ribakove

W. C. Thomas

SOCIAL FUNCTIONS

F. S. Barkalow, Jr., Chairman

G. O. T. Erdahl, Secretary

A. Crawford

R. B. Knight

O. B. Wooldridge

Students:

J. K. Hall

D. A. Heinzmann

J. H. Lively, Jr.

D. J. Morton

R. E. Moser

J. B. Myrick

W. D. Wilkinson

TRAFFIC

T. C. Brown, Chairman

J. E. Adams

D. S. Chamblee

G. D. Mangum

L. L. Miller

H. V. Park

H. D. Rawls

J. F. Seely

N. B. Watts

J. M. Smith, Advisor ✓

Students:

C. W. Hannah

J. C. Hopkins

R. P. Williams

F. C. Pethel, Jr.

D. D. Yager, Jr.

Elected Boards and Directorates, 1956-1957

COLLEGE UNION DIRECTORATE

D. C. Brown
E. L. Cloyd
G. O. T. Erdahl
C. A. Hamilton
A. C. Hayes
F. G. Warren

Student Members:

J. B. Smathers, President
E. L. Strother, Vice-President
D. J. Morton, Secretary
H. C. Abernethy
B. J. Ellis
H. R. England
W. R. Greene
J. T. Hancy
W. C. Holoman
J. V. Johnson
F. I. Joseph
G. T. Lathrop
J. M. Nolan
P. J. Pickenheim
G. L. Thomason
T. B. Williams

PUBLICATIONS BOARD

R. Pate, Chairman
W. L. Fleming
R. J. Johnston
W. A. Newell
B. C. Talley, Jr.
L. R. Whichard

Student Members:

S. B. Berman
R. P. Burns
J. M. Davis

W. A. Graham
J. I. Gray
A. J. Grunfeld
C. E. Herman
R. P. Hill
I. E. Jones
J. H. Lane
G. T. Lathrop
S. E. Mintz
P. J. Pickenheim
J. L. Rasor
R. A. Teague
G. L. Waitman
C. D. Webb

Y. M. C. A. DIRECTORATE

L. H. Swain, Chairman
J. W. Pou, Vice-Chairman
F. W. Lancaster, Secretary
G. B. James
A. Kelman
R. B. Knight
W. C. Lewis
R. L. Lovvorn
C. K. McAdams
A. J. Newton
J. A. Porter
L. W. Seegers
B. C. Talley, Jr.
E. G. Thurlow
S. L. Tisdale

Student Members:

C. J. Law
R. D. Siewers, Jr.
W. McN. Turner
R. P. Westmoreland

OFFICERS OF FACULTY SENATE, 1956-1957

Chairman: W. N. Hicks
Vice-Chairman: W. W. Austin
Secretary: R. J. Monroe

Faculty Senate Membership, 1956-1957

Name	Term Ending	School	Address	Phone
Asbill, C. M., Jr.	1956	Textiles, 117	Textile	420
Austin, W. W., Jr.	1957	Engineering, 107	Page	249
Barkalow, F. S., Jr.	1956	Agriculture, 156	Gardner	239
Barkley, K. L.	1956	Education, 123	Tompkins	286
Bryant, R. C.	1957	Forestry, 150	Kilgore	406
Bullock, R. C.	1957	Engineering, 218	Tompkins	228
Campbell, K. S.	1957	Textiles, 21	Textile	341
Cochran, F. D.	1956	Agriculture, 216	Kilgore	318
Corter, H. M.	1957	Education, 224	1911 Bldg.	397
Faires, V. M.	1956	Engineering, 307	Broughton	448
Glazener, E. W.	1957	Agriculture, 120	Scott	280
Gussow, Roy	1956	Design, 112	Brooks	438
Hamby, D. S.	1956	Textiles, 113	Textile	327
Harvey, P. H.	1957	Agriculture, 126	Williams	263
Hicks, W. N.	1956	General Studies, 204	Peele	374
Hines, T. I.	1956	Education, Field House		350
Legates, J. E.	1956	Agriculture, 105	Polk	268
Maki, T. E.	1956	Forestry, 152	Kilgore	406
Marshall, R. P.	1956	General Studies, 11	Winston	325
McCullough, J. A.	1956	Engineering, 138	Coliseum	435
Monroe, R. J.	1956	Agriculture, 120	Patterson	313
Mumford, C. G.	1957	Engineering, 224	Tompkins	228
Nahikian, H. M.	1956	Engineering, 222	Tompkins	228
Poland, G. W.	1957	General Studies, 205	Peele	231
Pou, J. W.	1957	Agriculture, 117	Polk	320
Reid, W. A.	1957	Agriculture, 113	Withers	297
Schoenborn, E. M.	1957	Engineering, 113	Riddick	301
Seegers, L. W.	1957	General Studies, 215	Winston	356
Seely, J. F.	1956	Engineering, 216	Riddick	357
Thurlow, F. G.	1957	Design, 200	Brooks	343
Whitfield, J. K.	1956	Engineering, 315	Broughton	246

FACULTY SENATE STANDING COMMITTEES, 1956-1957

AGENDA COMMITTEE

W. N. Hicks, Chairman of Senate

W. W. Austin, Vice-Chairman of Senate

R. J. Monroe, Secretary of Senate

COMMUNICATIONS

W. W. Austin, Chairman

C. G. Mumford, Secretary

E. W. Glazener

CONSTITUTION AND BY-LAWS

F. S. Barkalow, Chairman

J. K. Whitfield, Secretary

R. P. Marshall

R. J. Monroe (*ex-officio*)

L. W. Seegers

EDUCATIONAL POLICY

W. A. Reid, Chairman

T. I. Hines, Secretary

D. S. Hamby

E. E. Maki

G. W. Poland

E. M. Schoenborn

PERSONNEL POLICY

K. L. Barkley, Chairman

K. L. Campbell

P. H. Harvey

J. E. Legates

H. M. Nahikian

PERSONNEL PROBLEMS

R. C. Bryant, Chairman

J. W. Pou, Secretary

J. A. McCullough

STUDENT AFFAIRS

R. C. Bullock, Chairman

E. G. Thurlow, Secretary

E. M. Asbill, Jr.

F. D. Cochran

H. M. Porter

J. F. Seely

FACULTY SENATE SPECIAL COMMITTEES, 1956-1957

REPORT TO THE VISITING COMMITTEE HONORARY DEGREES

W. W. Austin, Chairman

C. G. Mumford, Secretary

E. W. Glazener

G. W. Poland

L. W. Seegers

J. W. Pou, Chairman

C. M. Asbill, Jr.

H. M. Corter

T. E. Maki

R. P. Marshall

C. G. Mumford

E. G. Thurlow

FACULTY AND STAFF DIRECTORY

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>P</i>
*Abbott, Nancy Gilliam	Exp. Stat.	112 Patterson	313 & 335	Apt. 33-H Vetville	TE 2
*Abruzzi, Catherine W.	Econ.	111 Peele	333	2706 Mayview Rd.	TE 3
*Abshier, G. S.	Ag. Ext.	209A Patterson	291	311 Wilmot Dr.	TE 2
*Adams, A. Harvey	Central Stores	Morris	463	210 2nd St., Clayton, N. C.	
*Adams, David A.	Zool.	362 Gardner	261		
*Adams, Hazel C.	Forestry	162 Kilgore	270	405 Brooks Ave.	TE 2
*Adams, James E.	Architecture	314 Brooks	437	1006 Carlton Ave.	TE 4
*Adams, William Elton	Engr.	232 Riddick	332	204 Faircloth	TE 2
*Adkins, Vivian	Exp. Stat.	120-H Patterson	TE 3-2454	2123 Milburne Rd.	TE 4
*Agnew, Stanton C.	Air Science	145 Coliseum	314	3114 Ashel St.	TE 4
*Alexander, Irene	Plant Path.	103 Gardner	380	Box 3332, State Coll. Sta.	TE 4
*Alford, Ella M.	Print Shop	Print Shop	281	208 Groveland Ave.	TE 2
*Allen, A. V.	Ag. Ext.	201 Polk	269	1314 Rand Drive	TE 2
*Allen, Clark Lee	Econ.	102 Peele	333	917 Brookwood Dr.	TE 3
Allen, Rev. Walser	Moravian			3225 Darien Drive	TE 3
*Allison, J. L.	Plant Path.	106 Gardner	380	1825 Wilshire St.	TE 2
*Allred, Fred J.	Mod. Lang.	207 Peele	231	3016 Mayview Rd.	TE 2
*Alter, Alan B.	Physics	400 Daniels	483	2700 Cartier Dr.	TE 2
*Amburgey, Lloyd D.	WUNC-TV	WUNC-TV	TE 4-6262	2212 Rumson Rd.	TE 3
*Ammerman, James P.	Animal Ind.	Farm	TE 3-9267	Rt. 1, Cary, N. C.	TE 3
*Ammerman, Talitha C.	Hort.	118 Kilgore	455 & 275	Rt. 1, Cary, N. C.	TE 3
*Anderson, Charles N.	Math.	216 Tompkins	228	207 Wilmot Dr.	TE 4
*Anderson, Irvin	Botany	262 Gardner	379 & 267	801 Newbern Ave.	TE 2
*Anderson, Louise	Mech. Eng.	211 Broughton	246	3305 Ruffin St.	TE 2
*Anderson, Richard L.	Exp. Stat.	120 Patterson	313&335	1007 Seward St.	TE 3
*Anderson, Roy N.	Education	224 1911 Bldg.	478	117 Forest Rd.	TE 3
Anderson, Winifred	Tex. Res.	21 Textile	288	128 Hillsboro St.	TE 3
*Andrews, Walter Glenn	Ag. Ext.	209 Scott Hall	377	Avent Ferry Rd.	TE 2
*Antonakas, Antonios	Physics	310 Daniels	353	2100 Van Dyke Ave.	TE 4
*Antonakas, Lillie Hall	Eng.	15 Winston	325	2100 Van Dyke Ave.,	TE 4
*Apple, J. Lawrence	Plant Path.	4 Gardner	381	3015 Lewis Farm Rd.	TE 3
Arant, Anamerle	Ag. Ext.	205 Ricks	212	1821 Glenwood Ave.	TE 2
Arey, Mary I.	Ag. Ext.	220 Patterson	306	5 Maiden Lane	TE 2
*Armstrong, Lindsey Otis	Ag. Ed.	121 Tompkins	346	308 Dixie Trail	TE 2
*Arnold, Hubert C.	M. & O.	M. & O.	392	110 Dennis Ave.	TE 3
*Asbill, C. M., Jr.	Textiles	117 Textile	420	2407 Stafford Ave.	TE 2
*Ashley, Elizabeth	M. & O.	M. & O.	451	105 Henderson St.	TE 4
*Askren, William B.	Psychology	112-B Tompkins	401	3049 Lewis Farm Rd.	TE 3
*Atkins, Mary W.	Textile Res.	B-48 Textile	416	2600 Mayview Rd.	TE 2
*Aurant, Leonard W.	An. Ind.	211 Polk	319	Rt. 4, Avent Ferry Rd.	TE 4
*Aurbach, H. A.	Rur. Soc.	338 1911 Bldg.	312	2945 Winchester Court	TE 4
*Austin, Wm. W.	Min. Ind.	109 Page	249	1015 Andrews Lane, Rt. 6	TE 2
*Avenette, Peggie Adams	Agr. Ext.	111 Ricks	271	121½ Enterprise St.	TE 3
*Babb, Edith M.	Library	D. H. Hill Library	372	23-A Vetville	
*Babcock, Willard F.	C. E.	438 C. E. Bldg.	303	2611 Wells Ave.	TE 2
*Badders, Hal	M. & O.	Power Plant	234	610 Dixie Trail	TE 2
*Bailey, Janie	M. E.	211 Broughton	246	Rt. 1, Neuse, N. C.	TE 3
*Baird, Bruce L.	Soils	101-A Williams	345	2356 Grant Ave.	TE 2
*Baker, James E.	Botany	214 Gardner	379	8 Fern dell Lane	TE 2
*Baker, W. Donald	Zoology	356 Gardner	261	UK-30 Vetville	TE 3
Baldovinos, Francisco	Soils	105 Williams	345	3011 Hillsboro St.	

* Married

Name	Dept.	Office	Ext.	Address	P
*Ball, Ernest	Botany	256 Gardner	267	1220 Duplin Rd.	TE 2
*Ballenger, Stanley T.	Mod. Lang.	213 Peele	231	2714 Rosedale Ave.	TE 2
*Banadyga, Albert A.	Ag. Ext.	231 Kilgore	296	705 Dixie Trail	TE 3
*Barber, Clifford W.	Poul.	108 Scott	366	625 Stacy St.	TE 3
*Barbour, Maxine L.	I. R. R.	Field House	350	Cameron Court Apts.	TE 4
*Barbour, Sherwood A.	Print Shop	Print Shop	281	716 Van Buren	TE 3
*Barclay, William J.	E. E.	425 Daniels	395	208 Avon Dr.	TE 2
*Barefoot, A. C., Jr.	Forestry	154 Kilgore	406	Ridge Rd., Rt. 6	TE 2
*Barefoot, Alma	Dining Hall	Leazar	TE 3-4825-6	2517 Clark Ave.	TE 3
*Barham, Carey G.	An. Ind.	Basement, Polk	TE 3-0531	621 E. Franklin St.	TE 2
*Barham, Linwood W.	Textiles	233 Textile	414	Route 1, Neuse, N. C.	TE 4
*Barham, Warren S.	Hort.	210 Kilgore	318	2444 Greenway Terrace	TE 3
*Barkalow, F. S., Jr.	Zool.	156 Gardner	239	2610 Wade Ave.	TE 3
*Barklev, Key Lee	Psychology	123 Tompkins	286	2305 Clark Ave.	TE 3
*Barnard, G. Ralph	Tex. R.	325 Textile	413	Gastonia, N. C.	UN 4
*Barnes, E. Floyd	Field Crops	139 Williams	263	Rt. 1, Raleigh	TE 3
*Barnes, Hazelen P.	Rur. Soc.	329 1911 Bldg.	465	415 New Bern Ave.	TE 2
*Barnes, Robert A.	Music	114 1911 Bldg.	251	1518 Duplin Rd.	TE 2
*Barnes, Saxe	Ext. Div.	121 1911 Bldg.	260 & 238	136 Woodburn Rd.	TE 2
*Barnett, Patricia Ann	Library	D. H. Hill Library	372	125 Woodburn Rd.	
*Barnhardt, Catherine	English	217-219 Winston	325	1417 Jackson St.	TE 2
*Barnhardt, L. W.	Hist. & Pol. Sci.	113 Winston	356	2502 Stafford Ave.	TE 2
*Barnhart, W. J.	English	217-219 Winston	325	1417 Jackson	TE 2
*Barrick, Elliott R.	An. Ind.	216 Polk	326&276	Route 3, Box 110, Raleigh	TE 4
*Barringer, Laura R.	Purchasing	200 Morris	230	605-B Woodburn Rd.	TE 3
*Barrow, Richard D.	Print Shop	Print Shop	281	2101 Ramseur St.	TE 3
*Bartholomew, William V.	Soils	358 Williams	220	Garner, N. C.	
*Bartley, A. J.	Econ.	106 Peele	333	Rt. 1, Cary, N. C.	TE 2
*Batchelder, Lenore C.	Print Shop	Print Shop	281	1076 Nichols Dr.	TE 3
*Batchelor, Robert E.	Agr. Ext.	15 Ricks	254	Rt. 2, Zebulon, N. C.	
*Bates, Frederick L.	Rur. Soc.	326 1911 Bldg.	465	321 Meredith St.	TE 4
*Baumgarten, William L.	Architecture	200E Brooks	343	813 Lake Boone Trail	TE 3
*Beal, Ernest O.	Botany	255 Gardner	267	2813 Van Dyke Ave.	TE 4
*Beamon, Naomi F.	Library	D. H. Hill Library	372	216 Blanchard St.	TE 4
*Beaman, Virginia H.	Occ. Inf. & Guid.	236 1911 Bldg.	478	M-5 Country Club Homes	TE 4
*Bean, Carolyn L.	Soils	356 Williams	363	2323 Grant Ave.	
*Beasley, Mary C.	Foundations	"A" Holladay	322	714 S. Kimbrough St.	TE 3
*Beatty, K. O., Jr.	Chem. Engr.	114 Riddick	309	323 Shepherd St.	TE 3
*Beers, Burton F.	Hist. & Pol. Sci.	115 Winston	356	2322 Grant Ave.	TE 3
*Bell, Judy	Entomology	327 Gardner	409	2816 O'Berry St.	TE 3
*Bell, Oliver A.	C. E.	145-A C. E. Bldg.	303	2604 Garner Rd.	TE 3
*Bell, Rebekah	Horticulture	326 Gardner	409	2816 O'Berry St.	TE 3
*Bell, Thomas A.	ARS-USDA	312 Polk	206	117 Montgomery St.	TE 3
*Bell, William C.	Indus. Exp.	Old Ceramic	347&464	3044 Lewis Farm Rd.	TE 3
*Belote, Betty Tyler	Bus. Office	"B" Holladay	278	6-A Vetville	TE 3
*Bennett, Landis S.	Vis. Aids	3 Ricks	458	2638 Kilgore Ave.	TE 3
*Bennett, Melvin	Ani. Ind.	304 Polk	241	4105 Western Blvd	TE 2
*Bennett, Roy R.	Agr. Ext.	454 Williams	329	2819 Kilgore Ave.	TE 2
*Bernstein, Mitzie E.	Reg. Office	13-B Holladay	351	31-F Vetville	TE 4
*Berrv, Ernest B.	Textiles	206 Textile	419	Rt. 1, Honeycutt Rd.	TE 4
*Bethel, James S.	Forestry	166 Kilgore	282	3364 Alamance Dr.	TE 3
*Bethune, Doris	Eng. Res.	217 Riddick	357	1512 1/2 St. Marys Street	TE 4
*Bienart, Julian	Architecture	313 Brooks	437	415 Gardner St.	TE 3
*Bill, Edward D.	Military	152 Coliseum	283	1922 Bernard St.	
*Bireline, George L., Jr.	Design	103 Brooks	438	Rt. 1, Cary, N. C.	
*Bishop, Charles Edwin	Agr. Econ.	201-C Patterson	355	727 Runnymede Rd.	TE 3
*Bishop, Mrs. L. W.	Y.M.C.A.	Y.M.C.A.	TE 2-7184	8 Bagwell Ave.	TE 2
*Blackmon, Dilmus M.	An. Ind.	An. Dis. Bldg.	TE 4-7336	416 Webster St., Cary, N. C.	HO 7

* Married

Name	Dept.	Office	Ext.	Address	P.
Blake, Carl T.	Agr. Ext.	152 Williams	222	UK-33, Vetville	
*Blackwell, Frances C.	Tex. Res.	106 Textile	273	1508 Frank St.	TE 4-
Blakey, Lewis H.	C. E.	234 C. E. Bldg.	303	2323 Byrd St.	TE 4-
*Blalock, T. Carlton	Ag. Ext.	104 Polk	277	1315 Brooks Ave.	TE 4-
*Blalock, Thomas J.	Chemistry	103 Withers	266	603 Gardner St.	TE 3-
*Blanchard, Barbara	An. Ind.	An. Dis. Bldg.	TE 4-7336	1217 Kent Rd.	
*Blanchard, Eleanor H.	Vis. Aids.	3 Ricks	330	Rt. 4, Buck Jones Rd.	TE 3-
*Blanton, Leonard F.	An. Ind.	213 Polk	319	19 Bagwell Ave.	TE 3-
Blaylock, Lovee	Education	118 Tompkins	311	710 McCullough St.	TE 4-
*Blizard, Warren E.	M. E.	222 Broughton	447	2104 St. James Rd.	
*Blow, William L.	Poultry	203 Scott	352	2102 Smallwood Dr.	TE 2-
*Blum, George, Jr.	Agr. Engr.	29 Tompkins	439	Rt. 4, Raleigh	TE 4-
*Blumer, Thomas N.	An. Ind.	214 Polk	276&326	350 Meredith St.	TE 4-
*Bogdan, Jack F.	Textiles	B-51 Textile	414	2700 Wayland Dr.	TE 2-
*Boles, Ralph C.	Mathematics	222 Tompkins	228	407 Brooks Ave.	TE 3-
*Bolick, Gerald M.	An. Ind.	214 Polk	326	200 East Edenton	TE 4-
*Boone, Ruth S.	Dining Hall	Leazar	TE 3-4825	3602 Leonard St. Ext.	TE 4-
*Booth, Howard G.	Print Shop	Print Shop	281	303 Hunter St., Cary, N. C.	HO 7-
*Borg, Alfred F.	Botany	213 Gardner	379	904 Canterbury Rd.	TE 4-
*Bost, Rev. Raymond	Lutheran	622 Hillsboro	TE 2-9687	1417 Regent	TE 2-
*Bostian, Carey H.	Chancellor	"A" Holladay	210	1903 Hillsboro St.	TE 2-
*Boulogne, Barbara	Plant Path.	113 Gardner	373	10-E Vetville	TE 4-
*Bowen, Henry D.	Agr. Engr.	Ag. Engr. Bldg.	479	3400 Octavia Rd.	TE 4-
*Bowery, Thomas Glenn	Chem.	3 Withers	383	3435 Leonard St.	TE 3-
*Bradford, Edward H.	Tex. Res.	325 Textile	413	Galax Dr., Rt. 1, Cary	TE 4-
Bramer, Charles R.	C. E.	134 C. E. Bldg.	391	2729 Oberlin Rd.	TE 3-
*Branan, N. Carson	Ag. Econ.	201-G Patterson	359	Rt. 1, Cary, N. C.	
*Brandt, B. B.	Zoology	160 Gardner	239	3218 Bedford Ave.	TE 3-
*Brantlev, V. R.	Math.	221 Tompkins	228	152 Jones-Franklin Rd.	TE 3-
*Braswell, Marguerite S.	Tex. Res.	122 Textile	413	2114 Mayview Ave.	TE 4-
*Bredenbergh, Paul A.	Soc. Studies	209 Winston	200	1007 Carlton Ave.	TE 4-
*Brenner, F. Cecil	Statistics	6 Patterson	386&387	2614 Kilgore Ave.	TE 4-
*Brett, Charles H.	Entomology	239 Gardner	384	1425 Dixie Trail	TE 2-
*Brewbaker, Carey Lewis	Athletics	130 Coliseum	TE 2-6934	810 Daniels St.	TE 4-
*Bridge, Gladys G.	Registration	10 Holladay	351	Wake Forest, N. C.	EX 5-
*Bridger, C. O.	Ag. Econ.	210 Patterson	308	27-F Vetville	
*Bridger, Margie Freeman	Alumni	Alumni Bldg.	TE 3-1010	UK-20 Vetville	
			& 252		
Bridges, W. S.	M. E.	129 Broughton	246	125 Chamberlain St.	TE 2-
*Briggs, Mrs. Neill	C. U.	216 C. U.	TE 4-7310	128 Groveland Ave.	TE 2-
*Bright, Richard	Ch.E	107 Riddick	309	Rt. 1, Neuse, N. C.	TE 3-
*Brigman, H. P.	Poultry	202 Scott	352	213 N. Bloodworth St.	TE 2-
*Brim, Charles A.	Field Crops	112 Williams	222	1713 Nottingham Rd.	TE 3-
*Brinkley, Betty P.	Bus. Office	"B" Holladay	298	2405 Hickory Rd.	TE 3-
Brinkley, R. M.	Exp. Stat.	11 Patterson	386&387	Box 5563, State Coll. Sta.	TE 3-
*Britt, Southgate T.	Soils	362 Williams	363	808 Colleton Rd.	TE 4-
*Brittain, F. W.	Field Crops	122 Williams	222	Rt. 4, Raleigh	TE 3-
*Brockman, Grace W.	Poultry	105 Scott	366	1208 Mitchell St.	TE 4-
*Brooks, Betty C.	Agr. Econ.	203-C Patterson	358	F-5 Shelton Apts.	TE 4-
*Brooks, Charles	Agr. Econ.	210 Patterson	308	F-5 Shelton Apts.	TE 4-
*Brooks, Jeannette M.	Infirmary	Clark	TE 2-7615	101 Enterprise St.	TE 2-
*Brose, King R.	Engr. Res.	141 Riddick	426	Wilmot Dr., Rt. 4	TE 4-
*Brown, David C.	M. E.	22 Diesel	203	204 Park Ave.	TE 4-
*Brown, Edmond J.	Physics	400 Daniels	483	2710 Kittrell Dr.	TE 3-
*Brown, Harlan C.	Library	D. H. Hill Library	259	3217 Merriman Ave.	TE 3-
*Brown, James M.	Soils	330 Williams	209	3015 Leonard St.	
*Brown, Jean C.	Genetics	348 Gardner	385	515 Gardner St.	TE 2-

* Married

Name	Dept.	Office	Ext.	Address	
*Brown, Luther E.	Soils	105 Williams	345	314 Rose Lane	
*Brown, Marvin L.	Hist. & Pol. Sci.	113 Winston	356	2948 Claremont Rd.	TE
*Brown, T. C.	M. E.	321 Riddick	247	910 Canterbury Rd.	TE
*Brown, T. T.	Poultry	126 Scott	368	1709 Bickett Blvd.	TE
*Brun, William A.	Botany	260 Gardner	267	Rt. 1, Cary, N. C.	TE
Bryan, Rose Ellwood	Agr. Ext.	214 Ricks	242	Durham, N. C.	Durham
*Bryant, Nancy W.	Chem.	113 Withers	297	2614 Van Dyke Ave.	TE
*Bryant, Ralph C.	Forestry	150 Kilgore	406	Avent Ferry Rd.	TE
*Bubas, Victor A.	Athletics	120 Coliseum	TE 4-1881	707 Smedes Place	TE
*Buchanan, J. S.	Ag. Ext.	201 Polk	269	2622 Grant Ave.	TE
*Buck, Ernest M.	An. Ind.	15 Polk	276	UK-46 Vetville	TE
*Bullock, R. C.	Math.	235 Riddick	436	1415 Dixie Trail	TE
Bumgardner, Harvey L.	Poul. Sci.	224 Scott	368	2807 Lewis Farm Rd.	TE
*Bunch, Luther V., Jr.	Field Crops	182 Williams	324	2416 E. Lake Dr.	TE
*Bunn, Clara Ray	An. Ind.	304 Polk	241	1826 Glenwood Ave.	TE
Bunn, Janice	Ag. Ext.	21 Ricks	254	1112 Holburn Place	TE
*Burchfield, Betty Auman	Dean of Fac.	110 Holladay	466	1007 St. Mary's St.	TE
*Burnette, B. Lawrence	Creamery	Basement, Polk	TE 3-0531	Rt. 3, Raleigh	TE
*Burnette, William H.	Park Shop	Park Shop	245	Rt. 3, Apex, N. C.	EL
Burns, Cristel	Library	205 Library	477	519 Gardner St.	TE
Burns, Joyce	Field Crops	484 Williams	300	519 Gardner St.	TE
Burton, Melvin	Entomology	135 Gardner	408	Gold Dorm.	TE
Busch, Edward F.	An. Ind.	An. Dis. Bldg.	TE 4-7336	224 N. Person St.	TE
*Butler, J. K., Jr.	Ag. Ext.	203 Polk	269	2217 Garden Place	TE
Butler, Patrick C.	Soils	383 Williams	363	1004 Nichols Dr.	TE
*Buzas, Stefan	Architecture	312 Brooks	437	Apt. V-9, Raleigh	TE
*Caffey, Michael D.	Psychology	202 Holloday	224	2211 Hope St.	TE
*Cady, Foster B.	Soils	330 Williams	209	3006 Mayview Rd.	
*Caldwell, George	Mathematics	235 Riddick	436	2329 Lyon St.	TE
Callies, George A.	Chem.	5 Withers	383	145 Tucker Dorm.	TE
*Caminos, Horacio	Architecture	317 Brooks	437	Rt. 6, Raleigh	TE
*Camp, Mrs. Norman F.	Hospital	Clark	TE 2-7615	626 W. Jones St.	TE
*Campbell, Alice R.	Alumni Office	Alumni Bldg.	TE 3-1010		
			& 252	College View Trailer Park	
Campbell, Catherine	Ag. Ext.	211 Ricks	462	1902 Stone St.	TE
Campbell, Graham	IBM	Holladay	442	1206 Dogwood Lane	TE
*Campbell, Kenneth S.	Textiles	21 Textile	341	212 Pogue St.	TE
*Campbell, Malcolm E.	Textiles	101 Textile	2738-422	1315 Williamson Dr.	TE
*Campbell, W. V.	Entomology	238 Gardner	384	UK-29 Vetville	TE
*Canady, Emmett J.	Mathematics	220 Tompkins	228	2611 Wade Ave.	TE
Cannon, Isabella W.	Library	D. H. Hill Library	259	212 Brooks Ave.	TE
Capps, Velma Maureen	Engineering	229 Riddick	216	418 Cutler St.	TE
*Capps, Vera H.	Ag. Ext.	134 1911 Bldg.	396	821 Young St.	TE
*Carde, Monty	Stu. Supply Stores	Y.M.C.A.	452	Clayton, N. C.	
*Carlson, Irving T.	Field Crops	158 Williams	324	Apt. G, 2612 Glenwood Ave.	TE
*Carlyle, A. A.	Indus. Exp.	Old Ceramic	464	49 W. Dixie Drive	TE
*Carpenter, Willard	Stu. Supply Store	YMCA	225	2323 Kennington Rd.	TE
*Carpenter, William L.	Exp. Sta.	118 Ricks	208	Millbrook, N. C.	TE
Carraway, Mary	Psychology	123 Tompkins	286	2706 Everett Ave.	TE
*Carroll, William	Textiles	102 Textile	289	626 Sasser St.	TE
*Carson, Robert G.	Ind. Engr.	328 Riddick	307	1202 Brooks Ave.	TE
*Carson, Victor S.	E. E.	435 Daniels	395		
		346 Riddick	427	215 Furches St.	TE
Carter, George L., Jr.	Ag. Ext.	204 Ricks	410	2706 Anderson Dr.	TE
*Carter, Roy M.	Forestry	158 Kilgore	270	705 Brooks Ave.	TE
*Carter, Ruby M.	Exp. Sta.	101-A Patterson	369	Apt. 12, 2402 Clark Ave.	TE
*Carver, I. L.	Horticulture			Method, N. C.	TE

* Married

Name	Dept.	Office	Ext.	Address	PH
*Casady, Robert B.	Zoology	355 Gardner	261		
		If no answer,	239	Rt. 2, Raleigh	TE 4-
Case, Everett N.	Athletics	120 Coliseum	TE 4-1881	611 Daniels St.	TE 3-
*Casey, Willis R.	Athletics	100 Coliseum	TE 2-2407	18 Enterprise St.	TE 3-
Cason, Louis J.	Print Shop	Print Shop	281	132 Woodburn Rd.	TE 3-
*Casper, Luther A.	Textiles	325 Textile	413	1404 Morning St.	TE 4-
*Cassell, Guy R.	Ag. Ext.	220-F Patterson	306	372 Wilmot Dr.	TE 3-
*Cates, David M.	Textiles	10 Textile	288	2612-B Glenwood Ave.	TE 4-
*Cates, Jewel S.	Genetics	353 Gardner	385	Peartree Road	TE 4-
*Cates, Mary C.	Ag. Engr.	200 Mangum	342	2612-B Glenwood Ave.	TE 4-
*Caudle, Thelma W.	Ag. Ext.	104 Ricks	213	Rt. 5, Raleigh	TE 3-
*Caviness, Betty L.	Ag. Ext.	309 Ricks	367	1508 Frank St.	TE 2-
*Cell, John W.	Mathematics	235 Riddick	436	3114 Darien Dr.	TE 2-
*Chadwick, Dorothy B.	N. C. Crop	189 Williams	207		
	Imp. Assoc.		& TE 4-7542	3321 Ridge Dr.	TE 2-
Chambers, C. L.	Watauga Book Shop	Watauga	337	2804 Hillsboro St.	TE 2-
*Chamblee, Douglas S.	Field Crops	154 Williams	324	2125 Buckingham Rd.	TE 3-
*Champion, Hubert, Jr.	Ag. Engr.	Ag. Engr. Bldg.	405	1408 Courtland Dr.	TE 3-
*Chaplain, Robert L.	Physics	312 Daniels	353		
*Chappel, Gordon D.	Textiles	233 Textile	414	322 Maywood Ave.	TE 3-
Charest, Father Edward	Catholic			15 N. McDowell St.	TE 2-
*Cheers, Margaret (Peggy)	Coll. Ext.	128 1911 Bldg.	467	410 N. Blount St.	TE 3-
Chen, Paul Pao-ho	E. E.	229 Daniels	395	Room 208, Gold Dorm., Box 320	TE 4-
*Cheniae, George M.	Botany	262 Gardner	267	UK-43 Verville	TE 4-
*Chewning, Porter	Chem.	402 Williams	272	901 St. Marys St.	TE 4-
*Christian, John A.	Ag. Ext.	203 Polk	269	310 Meredith St.	TE 4-
*Christmas, Thad	Textiles	233 Textile	414	1308 S. Sanders St.	
*Chumney, W. T.	Ag. Econ.	212 Patterson	308	2355 McMullin Circle	TE 4-
*Cipolloni, Mary Ann	Exp. Stat.	101-E Patterson	313&335	226 E. Park Dr.	TE 4-
*Clark, C. D.	Econ.	Peele	333	407½ Dixie Trail	TE 2-
*Clark, Joseph D.	English	119 Winston	325	15 Furches St.	TE 2-
Clark, Margaret E.	Ag. Ext.	206 Ricks	410	2602 Cambridge Rd.	TE 4-
*Clark, Margery B.	Soc. & Anthropol.	202 Peele	374	407½ Dixie Trail	TE 2-
*Clarke, Alisone M.	Econ.	230 1911 Bldg.	333	3413 Churchill Rd.	
*Clarke, Lewis J.	Architecture	217 Brooks	438	1322 Mordecai Dr.	TE 3-
*Clarkson, John M.	Math.	206 Tompkins	226	2605 Clark Ave.	TE 2-
*Clawson, Albert J.	An. Ind.	214 Polk	276&326	2716 Knowles St.	TE 2-
*Clayton, C. N.	Plant Path.	7 Gardner	381	2607 Van Dyke Ave.	TE 2-
*Clayton, Maurice H.	Engr. Mech.	248 C. E. Bldg.	317	1307 Brooks Ave.	TE 3-
*Cleary, John J.	M. E.	117 Broughton	450	3200 Milton Rd.	TE 2-
*Clogston, Roy B.	Athletics	102 Coliseum	TE 2-2407	2503 Glenwood Ave.	TE 2-
*Cloyd, Edward Lamar	Stu. Affairs	9 Holladay	215	2224 Hillsboro St.	TE 2-
*Coates, Edwin S.	Ag. Ext.	314 Ricks	274&389	Walnut Trail, Route 4	TE 4-
*Cochran, Fred D.	Horticulture	120 Kilgore	275&455	2620 Churchill Rd.	TE 3-
*Cockerham, C. Clark	Stat.	1-B Patterson	386&387		
		If no answer	313&335	2110 Dixie Trail	TE 4-
*Cockroft, Lindon U.	Econ.	201-G Patterson	359	Box 7479, State Hospital	
*Coffey, Reid E.	Print Shop	Print Shop	281	706 Hamilton Rd.	TE 3-
*Coggin, J. K.	Ag. Edu.	103 Tompkins	257	Cary, N. C.	HO 7-
*Cole, Colleen M.	Exp. Stat.	2 Patterson	386&387		
		If no answer,	313&335	2709 Rothgeb Dr.	TE 3-
*Cole, James L.	Soc. Studies	209-11 Winston	200	Rock Quarry Rd. Rt. 2	EM 2-
*Cole, Lena Grey	Bus. Office	1 Holladay	442	5 Rosemary St.	TE 3-
*Cole, Leo B.	Dining Hall	Leazar	3-4825-6	1200 Carleton Ave.	TE 3-
*Cole, Sarah F.	Textiles	204 Textile	419	Avent Ferry Rd.	TE 3-
*Coleman, Nathaniel Terry	Soils	354 Williams	220	2719 Ashland Ave.	TE 2-
*Collins, Emerson R.	Ag. Ext.	252 Williams	294	2713 Rosedale Ave.	TE 2-
*Collins, Herbert	Soc. Studies	213 Winston	200	902 Chaney Rd.	TE 4-
*Collins, W. B.	Ag. Ext.	303 Ricks	388		

* Married

Name	Dept.	Office	Ext.	Address	
*Colvard, D. W.	Agriculture	115 Patterson	211	1440 Dixie Trail	TE
*Colwell, W. E.	Ag. Exp. Sta.	104 Patterson	444		
			TE 2-6526	1310 Rand Dr.	TE
*Combs, Dr. Jos. J.	Infirmary	Clark	TE 2-7615	2125 White Oak Rd.	TE
*Comstock, Ralph E.	Exp. Stat.	1-C Patterson	386&387		
		If no answer,	313&335	312 Shepherd St.	TE
*Conner, N. W.	Eng. Res.	124 Riddick	248&423	3006 Ruffin St.	TE
*Cook, Hilliard D.	Forestry	P & P Lab.	TE 4-2235	1820 White Oak Rd.	TE
*Cook, Robert E.	Poul. Sci.	201 Scott	352	2320 Clark Ave., Apt H	TE
*Cooke, Annie P.	Tel. Exch.	117 Winston	0	1803 Bickett Boulevard	TE
*Cooke, Henry C.	Math.	221 Tompkins	228	3354 Hampton Rd.	TE
*Cooley, Betty W.	Agriculture	111 Patterson	362	1423 Beaver Dam Dr.	TE
*Cooper, William E.	Plant Path.	211 Gardner	310	Rt. 4, Jones Ave.	TE
*Cope, Ralph L.	Indus. Engr.	Park Shop	245	Dunn Ave., Vetville	TE
*Cope, Will A.	Field Crops	162 Williams	324	Rt. 4, Raleigh	TE
*Copeland, Otis B.	Ag. Inf.	112 Ricks	TE 2-6541&472	Apt. O, Glenwood Gardens	TE
*Correll, Franklin E.	Horticulture	228 Kilgore	318	2614 Wells Ave.	TE
*Corter, Harold M.	Psychology	109 Tompkins	365	3211 Arthur Court	TE
*Coss, Jack C.	C. E.	448 C. E. Bldg.	391	1219 Duplin Rd.	TE
*Cote, Daniel N.	C. E.	440 C. E. Bldg.	303	2300 Van Dyke Ave.	TE
*Council, Robert R.	Ag. Ext.	141 Gardner	201	1126 Brighton Rd.	TE
*Coutu, Arthur J.	Ag. Econ.	Asheville, N. C.	308	912 Tunnel Rd., Asheville, N. C.	TE
				Asheville,	
*Covington, Henry M.	Ag. Ext.	233 Kilgore	296	322 Perry St.	TE
*Cox, Charles E.	Textiles	B-37 Textile	412	413 Stacy Ct.	TE
*Cox, David F.	An. Ind.	15 Polk	268	819-B Daniels St.	TE
Cox, Florence	Ag. Ext.	301-A Ricks	388	111 Chamberlain St.	TE
Cox, Gertrude M.	Exp. Stat.	110 Patterson	375	1324 Brooks Ave.	TE
*Cox, Joseph H.	Architecture	212 Brooks	437	3810 Sherman Ave.	TE
*Cox, Paul M.	Textiles	323 Textile	413	42 Dixie Drive	TE
*Cox, Mrs. Paul M.	Textiles	122 Textile	327	42 Dixie Drive	TE
*Cox, Pearl O.	Textiles	325 Textile	413	311 Marsh Ave.	TE
*Coxe, Mary Frances	Rur. Soc.	326 1911 Bldg.	465	3029 Farrior Rd.	TE
Craddock, Anne	Design	200 Brooks	343	H-5 Grosvenor Garden	TE
*Craddock, Lucy Ann	Rur. Soc.	333 1911 Bldg.	312	716 St. Mary's St.	TE
Craig, Doris	Soils	327 Williams	209	607-C Daniels St.	TE
*Craig, Frank R.	Ag. Ext.	108 Scott	366	909 Francis Dr., Garner, N. C.	EM
					TE
*Craig, Harris Bradford	An. Ind.	215 Polk	276	1401 Beaverdam Rd.	TE
Craig, Margaret	Genetics	345 Gardner	385	607-C Daniels	TE
*Cranor, Winifred	Textiles	2-A Textile	288	2718 Bedford Ave.	TE
*Crawford, Albert	Ind. & R. Rec.	Field House	350	214 S. King Charles Rd.	TE
*Crawford, John W.	Ag. Ext.	133 1911 Bldg.	396	3204 Clark Ave.	TE
*Crawford, Louise B.	Registration	10 Holladay	219	Apt. 33-G, Vetville	TE
*Crawford, Ora	Ag. Engr.	200-B Mangum	461	2209 Sheffield Rd.	TE
*Crenshaw, Josephine D.	Plant Path.	207 Gardner	310 & 382	2719 Barmettler St.	TE
*Croom, Aldith A.	Ag. Ext.	202 Polk	269	1213 Mitchell St.	TE
*Croom, Ruth S.	Min. Ind.	109 Page	249	201½ Groveland Ave.	TE
Crump, Ila Mae	Infirmary	Clark	TE 2-7615	1806 Hillsboro St.	TE
*Crump, Patsy R.	Infirmary	Clark	TE 2-7615	1510 Simpkins St.	TE
*Crumpler, Frankie B.	C. E.	113 Riddick	301	2307 Byrd St.	TE
*Cullins, Marie K.	Ag. Econ.	203-C Patterson	358	2421 Hickory Rd.	TE
*Cummings, R. W.	Agriculture	107 Patterson	TE 2-6526		
			8315	812 Rosemont Ave.	TE
Current, Ruth	Ag. Ext.	101-A Ricks	244	C-2 Raleigh Apts.	TE
*Curtis, John M.	Ag. Ext.	220-E Patterson	291	Rt. 4, Raleigh	TE
Cusick, Josephine R.	Ag. Ext.	211 Ricks	462	1509 Hillsboro St.	TE
*Daber, Juanita	Ag. Econ.	214 Patterson	308	17-C Vetville	TE
Dahle, Robert D.	Ag. Econ.	210 Patterson	308	635 Daniel St., Apt. B	TE

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>Ph.</i>
*Dail, Norman	Air Science	139 Coliseum	314	110 East Lane St.	TE 2-
*Dakin, Rowena	Ag. Ext.	111 Ricks	271	2402 Clark Ave.	TE 3-
*Dana, M. M.	Engr. Res.	144 Riddick	426	308 Pogue St.	TE 4-
*Davis, Charlotte H.	Field Crops	456 Williams	300	Country Club Homes, Apt.	E-1
					TE 3-
*Davis, Lewis J.	Textiles	325 Textile	413	38 Mill St. Wake Forest, N. C.	Wake Forest
					TE 2-
Davis, Patricia L.	Library	D. H. Hill Library	372	404 Perry St.	TE 2-
*Davis, Philip H.	English	123 Winston	325	814 Woodburn Rd.	TE 2-
*Davis, Walter H.	Field Crops	186 Williams	324	1145 Brighton Rd.	TE 4-
*Dayberry, Charlie D.	Textiles	142 Textile	416	921 Peace Terrace	
Dayton, Madeline I.	Ag. Ext.	227 Kilgore	296	2519 Everett Avenue	TE 3-
*Deal, Barbara	Ag. Ext.	318 Ricks	274&389	32-G Vetville	
Deblagh, K. A.	Plant Path.	200 Gardner	310	117 Forest Rd.	TE 3-
*Denmark, Florence V.	Rur. Soc.	340 1911 Bldg.	312	2210 St. Mary's St.	TE 2-
*Dennis, Virginia V.	Textiles	115 Textile	420	1325 Mayfair Rd.	TE 4-
*Denton, Thomas J.	Military	154 Coliseum	233	Crestline Ave.	TE 3-
*DePoe, Marie J.	Ag. Ext.	227 Kilgore	296	Apt. 7-C, Vetville	
*Derr, Paul H.	Phy. Ed.	Gym	218	105 Edinburgh Rd.	TE 3-
Dewar, Gray	Field Crops	128 Williams	263	2625 Wells Ave.	TE 3-
*Dickens, James William	Ag. Engr.	Ag. Engr. Bldg.	475	1508 Simpkins	TE 4-
Dietz, James H.	Horticulture	112 Kilgore	275&455	2626 Kilgore	TE 4-
Dill, Charles William	An. Ind.	209 Polk	319	1212 College Place	TE 4-
Dillard, Emmett Urcey	An. Ind.	217 Polk	276&326	1326 Duplin Rd.	TE 2-
Diseker, Ellis G.	Ag. Engr.	Mangum	461	2722 Van Dyke Ave.	TE 2-
Dixon, D. R.	Econ.	111 Peele	333	1022 Shelley Rd.	TE 4-
Dixon, Lyman B.	Ag. Ext.	208 Ricks	410	Shelton Apts.	TE 2-
Dixon, R. V.	Stu. Sup. Stores	YMCA	338	3409 White Oak Rd.	TE 2-
Dobson, S. H.	Ag. Ext.	152 Williams	222	2128 Buckingham Rd.	TE 2-
Dodd, Essie Mac	Order	112 Library	344	4201 Reavis Rd.	TE 4-
Dodd, Evelyn B.	Ag. Ext.	456 Williams	329	207 Furches St.	TE 2-
Dogger, James R.	Entomology	228 Gardner	384	2813 Mayview Rd.	TE 3-
Doggett, J. Frank	Ag. Ext.	387 Williams	363	6305 Hilltop Dr.	TE 3-
Dolly, Forest G.	Math.	204 Tompkins	226	800 Dixie Trail	TE 4-
Donald, James R.	Ag. Econ.	210 Patterson	308	Gold Hall, N. C. State Col.	TE 2-
Doolittle, Jesse S.	M. E.	229 Broughton	447	1730 Piccadilly Lane	TE 3-
Dosher, Doris A.	Ag. Ext.	317 Ricks	274&389	2306 Fairview Rd.	TE 2-
Dough, Robert L.	Physics	310 Daniels	353	1425 Beaver Dam Dr.	
Dover, Mildred H.	Textiles	325 Textile	413	1061½ Logan Court	
Dowd, Peggy A.	Textiles	325 Textile	413	Apt. 36-C Vetville	TE 4-5
Drenowatz, Margaret C.	Ag. Exp.	205 Library	477	922½ W. Johnson St.	TE 4-3
Driggers, Merle G.	Soils	222 Williams	470	30-A Vetville	TE 4-2
Droge, John H.	Ag. Econ.	210 Patterson	308	2713 Vanderbilt Ave.	TE 3-4
Drum, Vernon B.	Military	142 Coliseum	233	3211 Burns Place	TE 4-5
Dudley, Inez	Ag. Ext.	262 Kilgore	407	1100 Daniels St.	TE 3-7
Duncan, John G.	M. & O.	M. & O. Bldg.	234	Garner, N. C.	EM 2-5
Dunlap, Geo. Heyward	Textiles	110 Textile	421	605 Lake Boone Trail	TE 2-2
Dunlap, Helen M.	Ag. Econ.	215-A Patterson	308	113 Nichols Dr.	TE 2-3
Dunston, Deport L.	Ag. Engr.	Ag. Engr. Bldg.	405	Method, N. C.	TE 4-4
Durrett, Paul K.	Social	270 C. U.	378	409 Gardner St.	TE 4-3
Early, Jack	Entomology	125 Gardner	408	19 Bagwell Ave.	TE 3-9
Earp, Jo M.	Ag. Ext.	213 Ricks	354	J-3-A Cameron Crt. Apts.	TE 4-6
Eason, Glenn A.	C. E.	248 C. E. Bldg.	317	115 Woodburn Rd.	TE 2-2
Eason, Joseph M.	Field Crops	106-A Williams	222	Rt. 1, Raleigh	TE 3-4
Economys, James N.	C. U.	C. U.	TE 4-7310	2711 Barmettler St.	TE 4-2
Edgerton, Moretta D.	Crop. Imp.	193 Williams	207	Buie's Creek, N. C.	5
	Assoc.		& TE 4-7542		
Edsall, Katherine A.	Library	D. H. Hill Library	372	205 Woodburn Rd.	TE 2-1
Edsall, Preston W.	Hist. & Pol. Sci.	114 Winston	356	205 Woodburn Rd.	TE 2-1

* Married

Name	Dept.	Office	Ext.	Address	
*Edwards, Earle L.	Athletics	104 Coliseum	TE 2-6934	613 Dixie Trail	TE
*Edwards, J. B., Jr.	Phys. Edu.	Gym	218	Tucker Dorm. Apts.	TE
Edwards, Jerry	Ag. Engr.	300 Mangum	342	116 Hawthorne Rd.	TE
*Edwards, Melba J.	Exp. Stat.	7 Patterson	386	205 Whitaker Mill Rd.	TE
*Edwards, Odessa Williams	Bus. Off.	103 Holladay	443	Tucker Dorm. Apts.	TE
*Edwards, Robert Lee	An. Ind.	106 Polk	326	U K 40 Verville	
*Eldridge, H. G., Jr.	English	7-9 Winston	325	354 Wilmot Dr.	TE
Elkins, Mary C.	Eng. Mech.	242 C. E. Bldg.	3178-404	1100 Glenwood Ave.	TE
*Elledge, Clifford	Field Crops	112 Williams	222	Rt. 4, Raleigh	TE
*Elledge, Wayne	Soils	380 Williams	363	Box 183, Rt. 1, Apex, N. C.	TE
Ellen, Melba	Circulation	Library	372	807 Glenwood Ave.	TE
*Elliott, Cecil Dean	Architecture	203 Brooks	343	Apt. D, 825 Daniels St.	TE
Elliott, F. W., Jr.	Math.	205 Tompkins	226	124 Owens Dorm., Box 4419	TE
*Elliott, Robt. N.	Soc. Studies	213 Winston	TE 4-8551	2411 Greenway Ave.	TE
*Ellis, D. E.	Plant Path.	114 Gardner	373	324 Shepherd St.	TE
*Ellis, Howard M.	Ag. Ext.	316 Ricks	2748-389	Walnut Trail, Rt. 4, Ral.	TE
*Endo, Burton Y.	Plant Path.	206 Gardner	382	3112 Douglas St.	TE
*Epps, Julia Faye	Soils	356 Williams	220	919 Wilmington Terrace	TE
Erdahl, Gerald O. T.	C. U.	216 C. U.	TE 4-7310	2106 St. James Rd.	TE
Erdman, Howard E.	Genetics	353 Gardner	385		
*Erickson, Eugene E.	Eng. Res.	306 Riddick	402	3106 Raymond St.	TE
*Etchells, John L.	AI-USDA	312 Polk	206	122 Faircloth St.	TE
*Evans, Harold J.	Botany	225 Gardner	379	3448 Bradley Pl.	TE
Evans, William R.	Chemistry	5 Withers	383	Hillsboro St.	TE
Ezell, Peggy Lynn	E. E.	320 Daniels	236	222 N. Person St.	TE
*Fadum, Ralph E.	C. E.	354 C. E. Bldg.	432	3056 Granville Dr.	TE
*Fails, E. A.	Econ.	116 Peele Hall	333	1004 Schaub Dr.	TE
*Faires, Virgil M.	M. E.	307 Broughton	448	612 Transylvania	TE
*Faison, Odell J.	Textile Res.	142 Textile	416	O'Hara Dr., Clayton, N. C.	TE
Farkas, Alois G.	C. E.	342 C. E. Bldg.	391	B-4 Raleigh Apts.	TE
*Farrell, R. H.	Athletics	100 Coliseum	TE 2-2407	116 Byron Pl.	TE
*Farrier, Maurice	Entomology	340 Gardner	409	B-1 Shelton Apts.	TE
*Farris, Billye W.	Ag. Ext.	301 Ricks	388	Box 5531, State Col. Sta.	TE
*Farris, Donald E.	Ag. Ext.	209-D Patterson	291	3340 White Oak Rd.	TE
*Farthing, Barton, R.	An. Ind.	115 Polk	268	Rt. 4, Raleigh	TE
*Farthing, Selma T.	An. Ind.	115 Polk	268	Rt. 4, Raleigh	TE
*Featherston, Dorothy S.	Exp. Sta.	4 Patterson	386&387	1513 Fairview Rd.	TE
		If no answer.	313&335		
*Ferenczi, Ivstan	Min. Ind.	207 Page	304	106 Faircloth St., Apt. 2	TE
*Ferguson, John C.	Ag. Ext.	313 Ricks	2748-389	1213 Dixie Trail	TE
*Ferguson, Rachael H.	Ag. Ext.	213 Ricks	354	1425 1/2 Park Dr.	TE
*Ferneyhough, R. H.	An. Ind.	125 An. Dis.	TE 4-7336-7	Rt. 3, Raleigh	TE
*Ferrell, James K.	C. E.	206 Riddick	357	2922 Oberlin Rd.	TE
*Fields, Betty L.	Bus. Office	"B" Holladay	298	413 Calvin Rd.	TE
*Finkner, Alva L.	Exp. Stat.	120-G Patterson	TE 3-2454	Edwards Ave.	TE
*Fisher, C. Page	C. E.	132 C. E. Bldg.	391	8 Maiden Lane	TE
*Fisher, H. A.	Mathematics	201 Tompkins	227	3134 Sussex Rd.	TE
Fite, Robert E.	M. & O.	M. & O. Bldg.	392	1821 White Oak Rd.	TE
*Fitts, James Walter	Soils	210 Williams	470	1021 Gardner Hall	TE
*Fitzgerald, W. Curtis, Jr.	Phil. & Rel.	204 Peele	374	1802 Arlington St.	TE
*Fitzpatrick, Grace	Ag. Ext.	220-A Patterson	306	2101 Glenwood Ave.	TE
*Fleischer, Jack	Exp. Stat.	120-F Patterson	TE 3-2454	828 Woodburn Rd.	TE
*Fleming, W. L.	Purchasing	200 Morris	2308-459	3358 Alamance Dr.	TE
*Floyd, Harron O.	Phy. Ed.	Gym	218	1431 Beaver Dam Rd.	TE
*Folks, Homer C.	Soils	228 Williams	345	Rt. 4, Raleigh	TE
*Foradori, George T.	Statistics	6 Patterson	TE 3-2454	U K 3 Verville	TE
*Fore, Julian M.	Ag. Engr.	200-A Mangum	405	2612 Glenwood Ave.	TE
*Forrest, Luke A.	Soils	310 Williams	209	1420 Duplin Rd.	TE
Fortson, Charles W.	Min. Ind.	216 Page	304	301 Turlington Dorm.	TE

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>P.</i>
*Fortune, Dorothy	Stu. Affairs	201 Holladay	397	2409½ Everett Ave.	TE 3-
*Foster, Charles I.	Soc. Studies	218-20 Winston	200	1308 Gorman St.	TE 4-
*Fountain, Alvin M.	English	121 Winston	325	2620 Mayview Rd.	TE 3-
*Fouraker, Raymond S.	E. E.	210 Daniels	235	601 Brooks Ave.	TE 2-
*Franklin, Paul L.	Vet. Housing	UK-5 Vetville	TE 2-4306	807 Poplar St.	TE 3-
Freeman, Doris	Econ.	104 Peele	333	1503 Jarvis St.	TE 2-
*Freeman, Virginia W.	Personnel	Primrose	481	604 Harp St.	TE 3-
Freeman, Samuel H.	Chem.	318 Withers	339	224 E. Park Dr.	TE 3-
Fromm, Daniel	Poul. Sci.	125 Scott	474	801 W. Morgan St., Apt. 8	TE 3-
*Fulcher, Reubin R.	Field Crops	429 Williams	334	Rt. 1, Raleigh	TE 3-
*Fulghum, James S., Jr.	Dorm. Rental	4 Holladay	349	308 S. Harrison Ave., Cary, N. C.	HO 7-
*Funderburg, John	Zoology	164 Gardner	445	8298 Daniels	
*Funderburg, Margaret	Soils	322 Williams	209	UK-27 Vetville	TE 4-
*Futrell, Archie W., Jr.	Mech. Engr.	17 Broughton	246	1050 Nichols Dr.	TE 2-
*Gaffney, M. M.	Econ.	111 Peele	333	116 Horne St.	TE 4-
*Gaither, John B.	Textiles	226 Textile	417	2349 Churchill Rd.	TE 2-
*Gallimore, William W.	Ag. Econ.	210 Patterson	308	UK-22 Vetville	
Gamble, Tonya	WUNC-TV	WUNC-TV	TE 4-6262	Hobby Hill Farms, Durham, N. C.	Durham 9-
*Garbarino, A. J.	Ag. Econ.	201-G Patterson	359	3001 Lewis Farm Rd.	
*Garbarino, Mary	Ag. Ext.	212 Ricks	462	3004 Lewis Farm Rd.	TE 4-
*Gardner, L. B.	Field Crops	Agron. Greenhouse	324	906 Marlboro Rd.	TE 4-
*Gardner, Monroe E.	Ag. Ext.	120 Kilgore	275&455	2708 Bedford Ave.	TE 2-
*Gardner, Ruth S.	Soils	383 Williams	363	2729 Webb St.	TE 4-
*Garner, Alton L.	Math.	216 Tompkins	228	125½ Woodburn Rd.	
*Garner, Thomas H.	Ag. Engr.	Ag. Engr. Bldg.	475	3513 Neal St.	TE 4-
*Garren, Henry W.	Poul. Sci.	118 Scott	368	West Bashford Rd.	TE 4-
*Garren, Martha Johnson	Math.	205 Tompkins	226	Rt. 1, Cary, N. C.	TE 4-
*Garrison, Walter S.	Textiles	142 Textile	416	418 Lamont St.	TE 3-
*Garriss, Howard R.	Ag. Ext.	9 Gardner	336	3220 Bedford Ave.	TE 2-
*Gartner, J. B.	Ag. Ext.	130 Kilgore	275&455	3230 Birnam-Wood Rd.	TE 4-
*Garvin, Carol	Engineering	121 Riddick	424	825-C Daniels St.	TE 4-
*Garvin, Robert G.	Eng. Res.	Riddick Annex	347	825-C Daniels St.	TE 4-
*Gast, Barabara S.	Textiles	B-43 Textile	414	Rt. 4, Old Jones Rd., Cary	HO 7-
*Gast, R. T.	Entomology	235 Gardner	384	Rt. 4, Cary	HO 7-
*Gauster, William F.	E. E.	331 Daniels	430		
		138 Riddick	425	117 W. Park Dr.	TE 3-
Gay, Polly	Field Crops	254 Williams	262	1304 Park Dr.	TE 3-
Geanes, Emma G.	English	118 Winston	325	1306 Filmore St.	TE 2-
*Geile, Mrs. W. G.	Textiles	106 Textile	273&422	2509 Glenwood Ave.	TE 2-
*Gentry, Jerlene J.	Horticulture	226 Kilgore	318	2706 Clark Ave.	
*George, James Dalton	Ag. Ext.	104 Polk	277	Rt. 4, Raleigh	TE 4-
*Gerstel, Dan U.	Field Crops	486 Williams	300	1410 Duplin Rd.	TE 4-
*Gibbs, Eleanor	Horticulture	21 Kilgore	275&455	Country Club Homes	TE 4-
*Gilbert, Edward B.	Tex. Research	325 Textile	413	Rt. 2, Raleigh	EM 2-
*Giles, G. Wallace	Ag. Engr.	203 Mangum	405	1000 Chamberlain St.	TE 2-
Giles, Jose	Genetics	351 Gardner	385		
*Glass, George G.	S. S. S.	YMCA	TE 2-3674&225	2707 Bedford Ave.	TE 3-
*Glazener, Edward W.	Poul. Sci.	120 Scott	280	700 Dixie Trail	TE 3-
*Glazener, Julian A.	Ag. Ext.	134 1911 Bldg.	396	118 Montgomery St.	TE 4-
*Gledhill, Vernal H.	Soils	331-A Williams	209	UK-39 Vetville	TE 4-
*Glenn, Karl B.	E. E.	210 Daniels	235	309 Bloodworth St.	TE 2-
*Glover, Jo Ann N.	Design	200 Brooks	343	3410 Hillsboro St.	TE 4-
*Glover, John W.	Ag. Ext.	313 Ricks	274&389	3410 Hillsboro St.	TE 4-
*Godfrey, Marvin R.	Crop Imp.	193 Williams	207	Jones Avenue, Rt. 4	TE 2-
			& TE 4-7542		
*Godwin, Katy L.	Textiles	B-46 Textile	414	Holburn Rd.	TE 4-
*Goetze, Alfred J.	E. E.	429 Daniels	395	615 Stacy St.	TE 2-
*Goff, Merritt	Exp. Stat.	6 Patterson	TE 3-2454	106 Faircloth St., Apt. 4	TE 3-0

* Married

Name	Dept.	Office	Ext.	Address	
*Goldthwait, Charles F.	Textiles	126 Textile	413	2112 Ridge Rd.	TE
*Good, Ruth	Ag. Econ.	202 Patterson	359	U-5 Raleigh Apts.	TE
*Goode, Lemuel	An. Ind.	218 Polk	276&326	2303 Clark Ave.	TE
*Goode, M. J.	Plant Path.	200 Gardner	310	UK-36, Veville	TE
*Gooding, Guy V., Jr.	Plant Path.	206 Gardner	382	UK-26 Veville	TE
*Goodman, Martha W.	Alumni	Alumni Bldg.	TE 3-1010	2114½ St. Marys St.	TE
			252		
Gordon, Pauline E.	Ag. Ext.	210 Ricks	462	Boylan Apts.	TE
*Goss, Carolyn	Soils	351 Williams	363	2315 Yancey St.	TE
*Gouge, Wiley L., Jr.	Concessions	115 Coliseum	TE 4-5697	Buck Jones Rd., Rt. 4	TE
*Gower, Joseph R.	Laundry	Laundry	283	420 Andrews St., Clayton, N. C.	TE
*Gray, John L.	Ag. Ext.	264 Kilgore	407	1201 Brooks Ave.	TE
*Grandage, Arnold	Exp. Stat.	3 Patterson	386&387	3030 Churchill	TE
*Green, Dorothy	Exp. Stat.	120 Patterson	313or335	Rt. 1, Neuse, N. C.	TE
*Green, Grace M.	College Ext.	119 1911 Bldg	260or238	F-102 Boylan Apts.	TE
*Greene, Lester M.	Poultry	109 Scott	366	Rt. 1, Raleigh	TE
*Greene, Minda	Gen. Studies	103 Peele	223	Rt. 1, Garner, N. C.	EM
*Greene, Ralph B.	Ag. Engr.	Ag. Engr. Bldg.	484	Highland Ridge Rd.	TE
*Gregory, John Hayes	An. Ind.	216 Polk	276&326	508 Dixie Trail	TE
*Gregory, Max Edwin	An. Ind.	209 Polk	319	Knightdale Teacherage,	TE
				Knightdale	
*Gregory, Walton C.	Field Crops	102 Williams	222	Rt. 1, Cary, N. C.	TE
*Griffin, E. Ann	Business	214 C. U.	TE 4-7310	2410 Weslev Rd.	TE
*Griffin, Wade E.	Engr. Res.	10 Riddick	425	Rt. 4, Raleigh	TE
*Grimsley, Corinne J.	Ag. Ext.	306 Ricks	221		
*Grinnells, C. D.	An. Ind.	114 Polk	305	409 Dixie Trail	TE
*Gristet, Iona	Registration	13 Holladay	351	1623 Dixie Trail	TE
*Groff, John C., Jr.	Textiles	B-37 Textile	412	410 S. Boylan Ave.	TE
*Grosch, Daniel S.	Genetics	350 Gardner	385	1222 Duplin Rd.	TE
*Gross, H. Douglass	Field Crops	186-A Williams	324	1009 Gardner St.	TE
*Grover, Elliot B.	Textiles	111 Textile	327	804 Lake Boone Trail	TE
*Guarnieri, Guiseppi	Architecture	200-D Brooks	313		
*Gullette, Florence	College Ext.	121 1911 Bldg.	260&238	2714 Everett Ave.	TE
*Gullette, George A.	Soc. Studies	212 Winston	200	2714 Everett Ave.	TE
*Gurley, S. Millicent	Ag. Ext.	104½ Polk	277	22-C Veville	TE
*Gussow, Roy	Design	114 Brooks	438	110 Cox Ave.	TE
*Guthrie, Frank E.	Entomology	229 Gardner	384	606 Stacey	TE
*Guzman, Miguel A.	Exp. Stat.	12 Patterson	386or387	2713 Clark, Apt. C	TE
*Hader, Robert J.	Exp. Stat.	3 Patterson	386&387	1610 Lorraine Rd.	TE
		If no answer, 313&335			
*Hagerty, Raymond F.	Military	Gym	232	Buffaloe's Trailer Park	TE
*Haig, Frederick Morgan	An. Ind.	113 Polk	268	Creedmoor Rd.	TE
*Hall, Geraldine A.	Ag. Ext.	104 Ricks	213	33 Bagwell Ave.	TE
*Hall, J. Curtis	Bus. Office	"B" Holladay	278	2358 Grant Ave.	TE
*Hall, Ruth B.	Mod. Lang.	205 Peele	231	1812 Craig St.	TE
*Hall, John L.	Chemistry	402-A Williams	272	415 Morrison Ave.	TE
*Hall, Roy L.	Textiles	325 Textile	413	718 Penn Rd. Raleigh	TE
*Halliday, E. M.	Soc. Studies	218 Winston	200	3400 Cherry Lane	TE
*Ham, N. B.	Econ.	230 1911 Bldg.	333	325 S. Main St., Wake Forest,	TE
*Hambv, D. S.	Textiles	113 Textile	327	305 King Charles Rd.	TE
*Hamilton, C. Horace	Rur. Soc.	339 1911 Bldg.	312	1515 Duplin Rd.	TE
*Hamilton, Helga	Textiles	B-48 Textile	416	1315 Beaver Dam Dr.	TE
*Hamilton, Hubert E.	An. Ind.	Basement, Polk	TE 3-0531	Rt. 3, Raleigh	TE
*Hamilton, Shirley Grissom	Bus. Office	"B" Holladay	278	21-F Veville	TE
*Hannon, Elizabeth L.	Box Office	101 Coliseum	TE 2-0523	2705 Rothgeb Dr.	TE
*Hanson, Clarence H.	Field Crops	182-A Williams	324	2132 Buckingham Rd.	TE
*Hanson, Karl P.	M. E.	211 Broughton	246	804 Rosemont Ave.	TE
*Hardee, Joseph E.	Engr. Mech.	214 C. E. Bldg.	317	Bellevue Terrance	TE

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>Ph.</i>
*Hankema, Reinard	Zoology	363 Gardner	261	1430 Chester Rd.	TE 2-
		If no answer,	239		
Harden, Kath	Registration	10 Holladay	351	1615 Hillsboro St.	TE 2-
*Hardwicke, Callie C.	Ag. Ext.	210 Ricks	462	1214 Cowper Dr.	TE 4-
*Harmon, Sadie J.	English	217-219 Winston	325	2322 Byrd St.	TE 3-
*Harness, Floyd Glenn	Vis. Aids	7 Ricks	330	514 Lansing St.	TE 3-
*Harrell, Carolyn M.	Textiles	126 Textile	413	Apt. 13-E, Vetville	TE 4-
Harrell, Cleon	Econ.	109 Peele	333	635-C Daniels	
Harrell, Eleanor Sherlyn	Soils	428 Williams	334	Rt. 4, Raleigh	TE 3-
*Harrell, George O.	Min. Ind.	104 Page	249		
*Harvey, Lewis C.	Military	Gym	232	4½ Rosemary St.	TE 4-
*Harrill, L. R.	Ag. Ext.	200 Ricks	214	1607 Iredell Dr.	TE 2-
*Harris, Allen N.	E. E.	111 Daniels	235	2617 Garner Rd.	TE 2-
*Harris, Alva H.	Zoology	243 Gardner	239	1-F Vetville	TE 2-
Harris, Anna Mae	Math.	205 Tompkins	226	125½ Woodburn Rd.	TE 4-
Harris, Donald G.	Soils	322 Williams	209	8 Ferndale Lane	TE 2-
Harris, Elaine T.	Engineering	229 Riddick	216	2836 Oberlin Rd.	TE 3-
*Harris, Howard B., Jr.	Print Shop	Print Shop	281	404½ Morrison Ave.	
Harris, John H.	Ag. Ext.	235 Kilgore	296	3214 Birnam-Wood Road	TE 2-
Harris, Mary	Ag. Ext.	301-A Ricks	388	2101-C Van Dyke Ave.	TE 4-
Harris, Minnie C.	Physics	Daniels	353	1203 Filmore St.	TE 2-
Harris, Nelda	Poul. Sci.	105 Scott	366	Apt. 19-B Vetville	
Harris, R. J.	Agriculture	111 Patterson	362	1208 College Place	TE 3-
Harrisberger, E. Lee	M. E.	315 Broughton	448	3205 Dell Dr.	TE 2-
Harrison, Thomas E.	Textiles	233 Textile	414	Rt. 1, Raleigh	
Hart, C. A.	Forestry	156 Kilgore	270	3306 Hillsboro St.	TE 4-
Hart, C. W.	Foundations	"A" Holladay	322	405 Perry St.	TE 2-
Hartley, Lodwick	English	118-B Winston	237	812 E. Gardner Dr.	TE 2-
Hartman, Loyal M.	Ag. Econ.	212 Patterson	308	2413 Greenway Terrace	
Hartman, Ruth	Engineering	232 Riddick	332	2413 Greenway Terrace	
Harvey, Paul H.	Field Crops	258 Williams	217	1311 Mayfair	TE 2-
Harwood, D. G.	Ag. Ext.	209-D Patterson	291	349 Wilmot Dr.	TE 4-
Hassler, Francis J.	Ag. Engr.	202 Mangum	342	1404 Eden Lane	TE 4-
Hassler, Wm. W.	Zoology	164 Gardner	239	14 Bagwell Ave.	TE 4-
Hatheway, William H.	Exp. Stat.	14 Patterson	386&387	2709 Lochmore Dr.	TE 2-
Havlicek, Joseph	Ag. Econ.	210 Patterson	308	2713 Vanderbilt Ave.	
Hawkins, Carolyn Ann	Soils	306 Williams	209	1341 Chester Rd.	TE 3-
Hawkins, Ralph O.	C. U.	C. U.	TE 4-7318	2914 O'Berry St.	TE 4-
Hawks, S. N., Jr.	Ag. Ext.	452 Williams	329	2817 Fowler Ave.	TE 3-
Hay, Donald G.	Rur. Soc.	330 1911 Bldg.	312	1410 Alabama Ave., Durham, N. C.	Durham 8-3
Hayes, Arthur C.	Textiles	2 Textile	288	3008 Ruffin St.	TE 2-3
Haynes, Frank L.	Horticulture	208 Kilgore	318	2101 Buckingham Rd.	TE 4-3
Haynie, Russell M., Jr.	College Ext.	129 1911 Bldg.	467	3805 Greenwood St.	TE 4-6
Hays, Ned S.	Air Science	145 Coliseum	314	111 Connor, Cary, N. C.	HO 7-6
Haywood, Patsy J.	Grad. Sch.	145 Gardner	429	211 Hawthorne Rd.	TE 3-6
Heafner, Marlene	Ag. Edu.	121 Tompkins	346	32-A Vetville	TE 2-9
Heard, Eulah	Ag. Ext.	309 Ricks	367	3109 Georgian Terrace	TE 3-
Heartt, Sophie P.	Col. Ext.	117 1911 Bldg.	238or260	1820 Wilshire Ave.	TE 2-2
Heater, Nell Ruth	Wolfpack Club	108 Coliseum	TE 4-2241	Robert St., Cary, N. C.	HO 7-6
Heaton, Richard S.	C. U.	214 C. U.	TE 4-7310	2615 Wells Ave.	TE 4-1
Herbert, T. T.	Plant Path.	205 Gardner	382	718 Runnymede Rd.	TE 2-8
Hefti, Heinz	Textiles	104 Textile	273 or 422	405 Brooks Ave.	TE 2-6
Hegwood, Orville L.	Military	Weapons Hut	233	Rt. 3, Raleigh	
Henderson, Rev. Robert	West. Fel.		TE 3-4300	2709½ Clark Ave.	TE 4-2
Hendricks, P. M.	Math.	204 Tompkins	226	2717 Clark Ave., P. O. Box	5593
Hendrix, Floyd	Plant Path.	206 Gardner	382	902½ Brooks Ave.	TE 4-8
Hendrix, Frances Greene	Chem.	402 Williams	272	902½ Brooks Ave.	TE 4-8
Hennessee, Dewey W.	Ag. Ext.	220-G Patterson	306	329 Meredith St.	

* Married

Name	Dept.	Office	Ext.	Address	F
*Henry, William R.	Ag. Econ.	201-G Patterson	359	2210 Brewer St.	TE 4
*Hensley, Bill F.	Athletics	124 Coliseum	TE 3-5620	2502 Country Club Court	TE 4
Henson, Ruth S.	Bus. Office	5 Holladay	441	2006-A Smallwood Dr.	TE 2
*Henson, Wiley H., Jr.	Ag. Engr.	Ag. Engr. Bldg.	475	3010 Leonard St.	TE 4
*Hentz, Robert R.	Chem.	318 Withers	339	2707 Van Dyke Ave.	TE 4
Herring, Mary Sue	Ag. Ext.	307 Ricks	285	607 Mills St.	TE 3
Hester, Mary Frances	Ag. Ext.	108 Ricks	213	1426 Mordecai Dr.	TE 2
Heuser, Anne D.	Genetics	345 Gardner	385	2600 1/2 Mayview Rd.	TE 4
*Heuser, Robert N.	Military	150 Coliseum	233	3201 Hillsboro St.	TE 4
*Hickman, C. Addison	Gen. Stud.	103 Peele	223	3101 Churchill Rd.	TE 2
Hickman, Phyllis	Ag. Ext.	220-C Patterson	291	11-B Vetville	TE 3
*Hicks, W. N.	Phil. & Rel.	204 Peele	374	2505 Vanderbilt Ave.	TE 2
*Higgins, John E.	M. & O.	M. & O.	451	Rt. 1, Cary, N. C.	TE 4
*Highfill, U. O.	Soils	188-A Williams	324	700 W. Pineland Dr.	TE 2
*Highfill, W. Lawrence	Phil. & Rel.	204 Peele	374	Rt. 4, Raleigh	TE 2
Highsmith, Charles M.	WUNC-TV	WUNC-TV	TE 4-6262	1009 E. Lane St.	TE 2
*Hilburn, Betty L.	Ag. Ext.	202 Ricks	410	12-C Vetville	TE 4
*Hill, Charles H.	Poul. Sci.	125 Scott	474	1012 Crest Rd.	TE 4
*Hill, James	Entomology	234 Gardner	384	1618 Hillsboro St.	TE 2
Hill, Randolph	Field Crops	256 Williams	217	2200 Hope St.	TE 2
*Hines, Thomas I.	Ind. & Rur. Rec.	Field House	350	519 Transylvania Ave.	TE 2
*Hinnant, Marion	Chem.	402 Williams	272	215 Ellington St., Clayton, N. C.	TE 4
*Hinshaw, Carol D., Mrs.	S. S. S.	YMCA	225	E-1-B Shelton Apts.	TE 4
Hinton, Arthur	Soils	149 Williams	209	5 Wade Ave.	TE 4
*Hipp, Doris	Ag. Edu.	102 Tompkins	257	2912 O'Berry St.	TE 4
Hirschmann, Hedwig	Plant Path.	2 Gardner	381	11 Hillcrest Rd.	TE 2
*Hitchings, Robert G.	Pulp & Paper	P & P Lab.	TE 4-2235	3427 Redbud Lane	TE 3
*Hoadley, George B.	E. E.	320-A Daniels	236	3213 Leonard St.	TE 4
*Hoadley, Mary B.	Rur. Soc.	329 1911 Bldg.	465	3213 Leonard St.	TE 4
*Hobbs, LaFloyd H.	Ag. Ext.	264 Kilgore	407	Galax Dr. Laurel Hills	TE 2
*Hobby, Arlene B.	Ag. Ext.	15 Ricks	254	919 W. South St.	TE 2
*Hobgood, L. W.	Print Shop	Print Shop	281	Vermont St., Smithfield, N. C.	TE 2
*Hoch, Arthur M.	Phy. Ed.	Gym	218	St. George Rd.	TE 2
Hodge, Chloe	Entomology	142 Gardner	408	2121 Poole Rd.	TE 2
Hodge, Glynne	Ind. Arts	106 Tompkins	258	Knightdale, N. C.	TE 2
*Hodge, W. Frank	Ind. Exp.	Old Ceramic Bldg.	464	Wake Cross Rd.	TE 2
*Hofmann, J. V.	Forestry	164 Kilgore	282	2800 Fairview Rd.	TE 2
*Hogge, Lemuel C.	Soils	101 Williams	345	2913 Boone Trail	TE 2
*Holcombe, Elsie	Sports Pub.	124 Coliseum	TE 3-5620	1907 Glenwood Ave.	TE 2
*Holland, John H.	Creamery	Basement, Polk	TE 3-0531	601 1/2 Elm St.	TE 2
*Holler, Dan F.	Ag. Ext.	204 Ricks	410	3340 White Oak Rd.	TE 2
*Holliday, Mary Jane	Bus. Office	105 Holladay	295	1402 Park Dr.	TE 2
*Holloway, John L.	Chemistry	26 Withers	339	518 Mial St.	TE 2
*Hollowell, M. E.	Ag. Ext.	209 Ricks	212	3012 Randolph Dr.	TE 2
*Holt, Vernon E.	M. E.	23 Diesel	246	805 Daniels St.	TE 2
*Holtzman, Abraham	Hist. & Pol. Sci.	115 Winston	356	1057 Nichols Dr.	TE 2
*Homme, Henry A.	Ag. Econ.	201-F Patterson	358	Rt. 4, Lakeside Dr.	TE 2
*Honeycutt, Hilda G.	Exp. Stat.	5 Patterson	386&387	3306 Hillsboro St.	TE 2
*Honeycutt, Ruth Ball	Math.	205 Tompkins	226	1827 Dixie Trail	TE 2
*Hoover, Patricia	Ag. Ext.	116 Ricks	208	104 Pogue St.	TE 2
*Horn, J. William	C. E.	442 C. E. Bldg.	303	608 Kirby St.	TE 2
*Horney, Eugene S.	Textiles	24 Textile	288	2708 Barmettler St.	TE 2
*Horton, Almetrice W.	Ag. Econ.	215 Patterson	308	5315 Orchard St.	TE 2
*Hostetler, Ivan	Ind. Arts	106 Tompkins	258	2604 Van Dyke Ave.	TE 2
*Houck, Peggy	Forestry	162 Kilgore	270	3104 Raymond St.	TE 2
*Howard, Barbara C.	An. Ind.	204 Polk	319	7-G Vetville	TE 2
*Howard, Margaret F.	Library	D. H. Hill Library	372	2824 Barmettler St.	TE 2
*Howell, Ezra L.	Ag. Engr.	29 Tompkins	439	Rt. 4, Raleigh	TE 2
*Howell, Katherine D.	Textiles	126 Textile	413	2718 1/2 Van Dyke St.	TE 2
Hudgins, Madge	Ag. Ext.	117 Ricks	255	402 Home St.	TE 2

* Married

Name	Dept.	Office	Ext.	Address	P
*Humphreys, U. J.	S. S. S.	YMCA Bldg.	225	2827 Barmettler St.	TE 3
*Hunt, Ann W.	Physics	4 Reactor Bldg.	229	25-D Vetville	TE 4
*Hunter, Arvel H.	Soils	362-A Williams	363	704 Harris St.	TE 2
Hunter, Elizabeth	An. Ind.	117 Polk	320&431	Box 464, Cary, N. C.	HO 7
Hunter, Faye	Poul. Sci.	109 Scott	366	704 Harris St.	TE 2
Hunter, Lillian P.	Exp. Stat.	112 Patterson	313or335	525 N. East St.	TE 2
*Hurst, David C.	Exp. Stat.	11 Patterson	386or 387	2504 Vanderbilt Ave.	TE 2
Husain, Akhtar	Plant Path.	206 Gardner	310	2220 Hillsboro St.	
Hutchins, Laraine E.	Textiles	B-48 Textile	416	18-A Vetville	
*Hutchinson, H. H.	Vet Housing	UK-5 Vetville	TE 2-4306	Knightdale, N. C.	TE 2
*Hyatt, George, Jr.	Ag. Ext.	102 Polk	321&277	1419 Lutz Ave.	TE 3
Hyman, T. M.	Ag. Ext.	113 Ricks	457	633 Daniels St.	TE 3
Idol, Charles A.	WUNC-TV	WUNC-TV	TE 4-6262	16 Enterprise St.	TE 3
*Ingram, P. Frances	Biol. Sci.	343 Gardner	385	2636 Kilgore Ave.	TE 3
*Ingram, William P., Jr.	Chem.	220 Withers	339	419 Chesterfield Rd.	TE 2
*Inscore, Preston L.	Textiles	325 Textile	413	146 Summit Ave.	TE 2
*Ivey, L. L.	S. S. S.	YMCA	TE 2-3674&225	202 E. Park Dr.	TE 2
Iyengar, G. K.	E. E.	227 Daniels	395		
*Jackle, Roger W.	Textiles	B-48 Textile	416	201 Ash Ave.	TE 3
*Jackson, Dorothy A.	Ag. Ext.	210 Scott	376	2405 Mayview Rd.	TE 2
Jackson, William A.	Soils	366 Williams	363	1004 Nichols Dr.	TE 2
*James, Gerald B.	Ag. Edu.	102 Tompkins	257	813 Runnymede Rd.	TE 4
*James, H. B.	Ag. Econ.	216-218 Patterson	308	1323 Lutz Ave.	TE 4
*Jeffries, Susan H.	Exp. Stat.	4-B Patterson	386 or 387	214 Faircloth St.	TE 4
Jenks, Bennie M.	Textiles	233 Textile	414	Rt. 1, Neuse, N. C.	
*Jennings, Charles W.	Chem.	8 Withers	383	1535 Delwood Dr.	TE 2
*Jennings, Hilda M.	Vis. Aids	3 Ricks	330	2612 Glenwood Ave.	TE 4
Jernigan, Alta Mae	Vet. Housing	UK-5 Vetville	TE 2-4306	709 W. Jones St.	TE 2
*Jeter, Robert Lee	M. E.	117 Broughton	246	2320 Lake Dr.	TE 2
*Jewett, Martha D.	Ag. Engr.	Mangum	405	1204 Banbury Rd.	TE 2
*Johnson, Barbara C.	Dorm. Rent. Off.	4 Holladay	349	502 Cutler St.	TE 3
*Johnson, Dorothy F.	Horticulture	130 Kilgore	275&455	Millbrook, N. C.	TE 3
*Johnson, E. Sigurd	Ind. Engr.	328 Riddick	307	Rt. 3, Old Stage Rd.	TE 4
*Johnson, Elmer H.	Soc. & Anth.	201-B Peele	374	Rt. 6, Edwards Ave.	TE 4
*Johnson, J. Clyde	Psychology	123 Tompkins	286	2310 Van Dyke Ave.	TE 3
*Johnson, William Hugh	Ag. Engr.	Ag. Engr. Bldg.	475	1251½ Woodburn Rd.	TE 2
*Johnston, Alvin M.	Textiles	131 Textile	415	Laurel Hills	TE 4
*Johnston, Roy J.	WUNC-TV	WUNC-TV	TE 4-6262	3102 Raymond St.	TE 4
*Jolly, Frances A.	Infirmary	Clark	TE 2-7615	Apt. W, Glenwood Gardens	TE 3
*Jones, Berry E.	Textiles	325 Textile	413	2218 Myres St. Durham N. C.	7
*Jones, Mrs. Berry E.	S. S. S.	YMCA	225	Rt. 1, Cary, N. C.	
*Jones, C. Blanchard	Dining Hall	Leazar	TE 3-4825-6	Six Forks Rd.	TE 2
*Jones, Edwin L.	Field Crops	122 Williams	222	Rt. 4, Raleigh	TE 4
*Jones, George D.	Ag. Ext.	140 Gardner	201	1316 Westfield St.	TE 3
*Jones, Guy L.	Field Crops	430 Williams	334	Rt. 1, Cary, N. C.	TE 4
*Jones, Mrs. I. D.	Chemistry	322 Withers	339	2710 Rosedale Ave.	TE 2
*Jones, Ivan D.	Horticulture	114 Kilgore	275&455	2710 Rosedale Ave.	TE 2
*Jones, Margaret	Poultry	208 Scott	352	B-302 Boylan Apts.	TE 3
*Jordan, David H.	Print Shop	Print Shop	281	2804 Bedford Ave.	TE 2
*Jordan, Walter E.	Chem.	106 Withers	266	2600 Mayview Rd.	TE 2
*Joslin, Margaret W.	Design	200 Brooks	438	15 Enterprise St.	TE 4
*Joyner, Thomas F., Jr.	Print Shop	Print Shop	281	159 Gilbert Ave.	TE 3
*Kahn, Charles H.	C. E.	132 C. E. Bldg.	391	627-B Daniels St.	TE 3
*Kamphoefner, Henry L.	Design	200 Brooks	250&343	3060 Granville Dr.	TE 3
*Kamprath, Eugene J.	Soils	382-A Williams	363	U-8 Raleigh Apts.	TE 4
*Kamprath, Katharine A.	Field Crops	428 Williams	334	U-8 Raleigh Apts.	TE 4

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>Phone</i>
*Keating, Harold	Phy. Edu.	Gym	218	2709 Royster Rd.	TE 4
*Keith, Gordon, Jr.	Air Science	Pullen Hall	433	305 Hunter St., Cary, N. C.	TE 4
Kelleher, Therese	Exp. Stat.	1-A Patterson	386&387	2409 Stafford Ave.	TE 2
*Keller, Walter M.	Ag. Ext.	264 Kilgore	407		
*Kelley, Charles R.	Psychology	108 Tompkins	365	1010 Gorman St.	TE 4
*Kelley, Jack	Ag. Ext.	203 Polk	269	625 Woodburn Rd.	TE 3
*Kelley, Robt. Dolan	Ind. Engr.	Park Shop	245	1617 Beaver Dam Rd.	TE 3
*Kelly, Joseph W.	Poultry	11 Scott	474	313 Furches St.	TE 3
Kelly, Wilton A.	Print Shop	Print Shop	281	Rt. 6 Raleigh	TE 3
*Kelman, Arthur	Plant Path.	3 Gardner	381	3430 Redbud Lane	TE 4
Kendrick, Alma Mae	Registration	12 Holladay	205	H-2 Shelton Apts.	TE 4
*Kendrick, Berdie Belle	Botany	252 Gardner	267	350 Wilmot Dr.	TE 4
*Kenfield, Carol	C. U.	270 C. U.	378	2707 Mayview Rd.	TE 4
*Kenfield, John F., Jr.	Phy. Edu.	Gym	218	2709 Mayview Rd.	TE 4
*Kennedy, Frank R.	M. & O.	Power Plant	234	2634 St. Mary's St.	TE 4
Kennett, Nell	Ag. Ext.	201-A Ricks	243	1436 Banbury Rd.	TE 4
*Kersey, Rebecca A.	Textiles	B-48 Textile	416	308 Hillcrest Dr.	TE 4
Kim, Jai-Soon	E. E.	227 Daniels	395		
*Kimball, Sarah Ann	Exp. Station	101-A Patterson	369	330 Wilmot Dr.	TE 4
*Kinchloe, Henderson G.	English	117 Winston	325	210 Furches	TE 4
*King, Carlisle R.	Vet. Adm.	106 1911 Bldg.	TE 3-4679	Knightdale, N. C.	TE 4
*King, Cyrus B.	Book Shop	Watauga	337	409 Yarmouth Rd.	TE 4
*King, Edith S.	Exp. Stat.	7 Patterson	386&387	Timberlake, Rt. 5	TE 4
*King, Elsie G.	Ag. Econ.	201-A Patterson	359	UK-28 Vetville	
*King, Ethel Rogers	Bus. Office	7 Holladay	442	3025 Lewis Farm Rd.	TE 4
*King, Hubert G.	M. E.	1 Diesel	203	238 Pecan Rd.	TE 4
*King, James A.	Textiles	B-53 Textile	416	UK-28 Vetville	
*King, Richard A.	Ag. Econ.	201-E Patterson	359	2108 Buckingham Rd.	TE 4
*Kirby, Rosa D.	Textiles	22 Textile	288	Rt. 4, Raleigh	TE 4
*Kirkland, J. Bryant	Education	119 Tompkins	256	2621 Grant Ave.	TE 4
*Klibbe, James W.	Textiles	226 Textile	417	1213 Brooks Ave.	TE 4
*Klingman, Glenn C.	Field Crops	464 Williams	300	1013 Gardner	TE 4
*Knight, Richard B.	M. E.	223 Broughton	446	1029 Nichols Dr.	TE 4
*Knowles, Albert S., Jr.	English	119 Winston	325	3403 Leonard St.	TE 4
*Knox, Shirley S.	An. Ind.	317 Polk	241	Rt. 1, Cary, N. C.	
Kojima, Ken-ichi	Exp. Stat.	1-A Patterson	386&387	205 Ashe Ave.	TE 4
*Kolb, Charles F.	Hist. & Pol. Sci.	111 Winston	356	Rt. 1, Garner, N. C.	EM 4
*Kolbe, Melvin H.	Ag. Ext.	229 Kilgore	296	Apt. K, Glenwood Gardens	TE 4
*Konsler, Tom	Horticulture	218 Kilgore	318	UK-35 Vetville	
Koonce, Benjamin	English	13 Winston	325	222 Hawthorne Rd.	TE 4
*Koontz, Doris Jean	Chem.	203 Withers	339	17-E Vetville	
*Koop, John Clement	Exp. Stat.	120-E Patterson	TE 3-2454	310 Gold, P. O. Box 3234	
*Kovac, Teddy S.	Ag. Econ.	214 Patterson	308	D-1A Cameron Crt. Apts.	TE 4
*Kriegel, William W.	Min. Ind.	111 Page	249	1916 Sunset Dr.	TE 4
*Krusberg, L. R.	Plant Path.	200 Gardner	310	16 Furches St.	TE 4
*Krusburg, Betty Kirk	Exp. Stat.	112 Patterson	313&335	16 Furches St.	TE 4
*Kulash, Walter M.	Entomology	234 Gardner	384	20 Bagwell Ave.	TE 4
*Kutschinski, C. D.	Music	114 1911 Bldg.	251	1500 Hillsboro St.	TE 4
*LaChance, Leo Emory	Genetics	353 Gardner	385		
*Lackey, Evelyn H.	Print Shop	Print Shop	281	113 N. Bloodworth St.	
*Ladd, Lincoln F.	English	11 Winston	325	3411 Leonard St.	TE 4
*Ladu, Arthur I.	English	117 Winston	325	802 Lake Boone Trail	TE 4
Lambe, Claude M.	C. E.	254 C. E. Bldg.	303	413 Calvin Rd.	TE 4
*Lambert, John R.	Soc. Studies	218-20 Winston	200	Box 284, Rt. 2	EM 4
*Lampe, J. H.	Engineering	229 Riddick	216	305 Forest Rd.	TE 4
*Lamonds, Harold A.	Physics	13 Nuclear Reactor	393	2612 Kilgore Ave.	TE 4

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>Pr</i>
*Iammas, Elga Valda	Chem.	402 Williams	272	1313 Wake Forest Rd.	TE 3-
*Lancaster, Forrest Wesley	Physics	202 Daniels	266	2403 Everett Ave.	TE 2-
*Lane, Carolyn W.	Stu. Affairs	313 1911 Bldg.	TE 3-4810	3312 Pollock Pl.	TE 3-
*Lane, Frank A.	An. Ind.	Central Station	TE 2-8901	3530 Western Blvd.	TE 4-
*Lane, Mary Jane	Chem.	203 Withers	339	13-D Vetville	TE 4-
*Langley, Lorna	Ag. Ext.	201-A Ricks	243	2402 Clark Ave.	TE 2-
*Larkins, Elizabeth	Ag. Econ.	210-A Patterson	308	1903 Glenwood	TE 3-
*Lasater, Roberts C.	Bap. Stu. U.	2702 Hillsboro	TE 2-1835	809 Henderson Rd.	TE 2-
*Lasman, Lonnie	Exp. Stat	120-E Patterson	TE 3-2454	1717 Vanderbilt	TE 2-
*Lassiter, Lela B.	An. Ind.	115 Polk	268	Apex, N. C.	EL 4-
*Leach, Ellen R.	Library	D. H. Hill Library	344	Apt. 22-B Vetville	
*Leach, Sarah C.	Ag. Ext.	208 Ricks	410	17-F Vetville	TE 4-
*Leatherwood, James Murray	An. Ind.	115 Polk	268	Fayetteville Rd.	
*Lecce, Eileen K.	Chem.	4 Withers	383	2219 Garden Pl.	
*Lecce, James	An. Ind.	An. Dis. Bldg.	TE 4-7336	2219 Garden Pl.	
*Ledbetter, Thomas B.	M. E.	222 Broughton	447	1213 Duplin Rd.	TE 3-
*Lee, Betty J.	Ag. Edu.	103 Tompkins	257	106 Buck Jones Rd.	TE 4-
*Lee, Harriet James	Statistics	5 Patterson	386	Rt. 4, Jones Ave.	
*Lee, Helen L.	Genetics	347 Gardner	385	1625 Van Dyke Ave.	TE 3-
*Lee, John F.	M. E.	309 Broughton	448	1625 Van Dyke Ave.	TE 3-
*Lee, John H.	Textiles	325 Textile	413	Clayton, N. C.	
*Lee, John W.	Print Shop	Print Shop	281	511 Hamby St., Clayton, N. C.	
Lee, Mary Em	Ag. Ext.	302 Ricks	221	D-5 Ralcigh Apts.	TE 3-
*Lee, William Daniel	Ag. Ext.	388 Williams	363	318 Furches St.	TE 2-
*Legates, J. E.	An. Ind.	115 Polk	268	Walnut Trail	TE 3-
Leggett, Angelum	Ag. Ext.	109 Ricks	292	2710 1/2 Everett Ave.	TE 2-
*Lennon, Robert	Print Shop	Print Shop	281	Rt. 1, Cary, N. C.	
*Leonard, Paul B.	M. E.	221 Broughton	446	608 Dixie Trail	TE 3-
Leonhardt, William R.	Phy. Edu.	Gym	218	425 N. Bloodworth St.	
*Levine, Jack	Math.	206 Tompkins	226	2731 Rosedale Ave.	TE 4-
*Lewis, Charles F.	Math.	208 Tompkins	226	218 E. Park Dr.	TE 3-
*Lewis, J. G.	Textiles	132 Textile	415	518 Dixie Trail	TE 2-
*Lewis, Malcolm	M. E.	323 Broughton	246	1002 Trinity Ave.	TE 2-
*Lewis, Mary Anderson	Dairy Mfg.	Basement, Polk	TE 3-0531	7 Dixie Trail	
Lewis, Quentin M.	Air Science	139 Coliseum	314	1897 W. Smallwood	TE 2-
Lewis, William M.	Field Crops	284 Williams	294	1908 Park Dr.	TE 2-
*Lewontin, Richard C.	Genetics	349 Gardner	385	219 Oberlin	TE 4-
*Libby, C. E.	Forestry	P & P Lab.	TE 4-2235	1430 Brooks Ave.	TE 3-
*Libeau, Clayton P.	Ag. Ext.	220-C Patterson	291	334 Wilmot Dr.	TE 4-
*Liles, Edith W.	Textiles	103 Textile	289	316 Hudson St.	TE 2-
*Liles, Frances L.	Forestry	162 Kilgore	270	Pineview Hills	TE 3-
Lilley, Ann	News Bureau	101 Holladay	253	710 Glenwood Ave.	TE 3-
Lin, Clara	Soils	383 Williams	363	3109 Hillsboro St.	TE 4-
*Linder, William W.	Rur. Soc.	322 1911 Bldg.	465	34 Shepherd St.	TE 2-
Lineberry, Martha Foy	Library	D. H. Hill Library	344	203 Forest Rd.	TE 3-
*Liner, Mary M.	Exp. Stat.	101-E Patterson	313or335	2402 Clark Ave.	TE 3-
*Lintz, David	Physics	227 Daniels	430	3212 Bertie St.	TE 4-
*Little, Charles H., Jr.	Math.	208 Tompkins	226	2606 Barmettler St.	TE 2-
*Little, James H.	Phy. Edu.	Gym	218	1402 1/2 Poultry Farm Rd.	TE 2-
*Little, Ruth W.	Ag. Ext.	213 Ricks	354	2900 O'Berry St.	
Liu, Shing-gong	E. E.	229 Daniels	430	307 Gold Hall, Box 3231	
*Livingstone, Mrs. John A.	An. Ind.	216 Polk	276&326	903 W. Johnson St.	TE 2-
*Llewellyn, R. W.	Ind. Engr.	334 Riddick	428	3439 Redbud Lane	
*Loeppert, Richard H.	Chem.	113 Withers	297	1317 Rand Dr.	TE 3-
*LoMonte, Vincent J.	Textiles	B-46 Textile	414	2836 Claremont Rd.	TE 4-
*Long, Ann B.	Ag. Ext.	113 Ricks	457	801 Runnymede	TE 4-
*Long, Leonard Wood	E. E.	225 Daniels	430	1833 Wilshire Ave.	TE 3-
*Looper, Roy A.	Textiles	233 Textile	414	Rt. 1, Neuse, N. C.	TE 4-
*Lovvorn, Roy L.	Agriculture	103 Patterson	331&315	809 Runnymede	TE 4-

* Married

Name	Dept.	Office	Ext.	Address	
*Lowery, Edward M.	Zoology	356 Gardner	445		
		If no answer,	239	3326 Ruffin St., Apt. 3	TE
*Lowery, Sheldon G.	Rur. Soc.	335 1911 Bldg.	312	809 Tower St.	TE
*Lucas, Charles D.	Math.	205 Tompkins	226	210 Gold Dorm.	
*Lucas, G. B.	Plant Path.	109 Gardner	380	3040 Churchill Rd.	TE
*Lucas, Henry L., Jr.	Exp. Stat.	101-D Patterson	313&335	2612 St. Mary's St.	TE
*Lucas, Julia	Botany	252 Gardner	267	2713 Kilgore Ave.	TE
*Lucier, A. E.	Eng. Res.	9 Riddick	425	704 Runnymede Rd.	TE
Lundholm, J. G.	Physics	24 Nuclear Reactor	393	1002 Nichols Dr.	TE
Lutz, J. F.	Soils	224 Williams	345	1401 Dixie Trail	TE
*Lynn, Joseph Thomas	Physics	400 Daniels	483	2606 Van Dyke Ave.	TE
*Lyon, James B.	Military	142 Coliseum	233	119 W. Drewry Lane	TE
*Lyons, Mrs. Harrye	Design	201 Brooks	361	M-3A Cameron Crt. Apts.	TE
*Lyons, J. A.	Econ.	113 Peele	333	M-3A Cameron Crt. Apts.	TE
*MacKerracher, R. A.	Math.	222 Tompkins	228	3708 Webb St.	TE
*McAllister, Mary L.	Ag. Ext.	205 Ricks	212	20 Enterprise St.	TE
*McAllister, Robert A.	C. E.	208 Riddick	357	1406 Chester Rd.	TE
McArthur, Anne	Textiles	B-48 Textile	416	125½ Woodburn Rd.	TE
*McArthur, Louise	Poultry	120 Scott	280	803-D Daniels St.	TE
*McBraver, Elizabeth M.	Ag. Ext.	202 Polk	269	223 Forest Rd.	TE
*McCallum, Andrew B.	Air Science	Pullen	433	906½ Canterbury Rd.	TE
*McCants, Charles B.	Soils	424 Williams	334	1319 Beaver Dam Rd.	TE
*McCombs, C. L.	Horticulture	220 Kilgore	318	3438 Bradley Pl.	TE
*McCulloch, Joseph A.	Military	138 Coliseum	233	1817 Glenwood Ave.	TE
*McCullough, Charles R.	C. E.	340 C. E. Bldg.	391	1 Marilyn Dr.	TE
*McCullough, Hillard B.	Air Science	141 Coliseum	314	129 Forest Rd.	TE
*McCutchan, Virginia	Personnel	Primrose	481	521 N. East St.	TE
McDiarmid, Katharine	Library	112 Textile	421	224 Chamberlain St.	TE
*McDonald, Iain	Soils	388-A Williams	220	2344 Grant Ave.	
*McDonald, Mabel P.	Ag. Ext.	117 Ricks	255	1905 McDonald Lane	TE
*McDonald, Patrick H., Jr.	Engr. Res.	141 Riddick	426	126 Henderson St.	TE
McElwee, R. L.	Forestry	250 Kilgore	282	1305 Beaver Dam Rd.	TE
*McGalliard, Ac Ruble	Library	D. H. Hill Library	398	408 Glascock St.	TE
McGee, Lawrence B.	Ind. Exp.	Old Ceramic Bldg.	464	300 Chamberlain	TE
*McGlamery, Rev. Neal	Wesley Found.	2511 Clark Ave.	TE 3-1861	210 Wilmot Dr.	TE
*McIntyre, Martin L.	Horticulture	New Greenhouse	418	1206 Anslow Rd.	TE
McIver, Julia	Ag. Ext.	300 Ricks	221	2202 St. Mary's St.	TE
*McKean, Keith	Soc. Studies	209-211 Winston	200	3429 Redbud Lane	TE
*McKenzie, Dorothy	Library	12 Library	344	Apt. 6-F Vetville	TE
*McKimmon, Katharine	Ag. Exp. Sta.	107 Patterson	315	2814 O'Berry St.	TE
*McLaughlin, Foil W. Crop Imp. Assoc.		193 Williams	207		
		& TE 4-7542		804 Runnymede Rd.	TE
McLean, Gravce	Bus. Office	3 Holladay	316	124 E. Park Dr.	TE
*McLean, R. A.	Ind. Exp.	Old Ceramic Bldg.	464	418 Wayne Dr.	TE
McMahan, Sarah	An. Ind.	317 Polk	241	1619 Craig St.	TE
*McMillan, Harry K.	M. E.	221 Broughton	446	1008 Crest Rd.	TE
*McMillen, R. W.	Found. Seed Prod.	124 Williams	TE 2-1573	3008 Grant Ave.	TE
McNeill, John J.	An. Ind.	18 Polk	268or305	Grosvenor Gardners (J-4)	TE
*McSweeney, Guy P.	Air Science	139 Coliseum	314	1819 W. Smallwood	TE
Maddy, Linda	Math.	201 Tompkins	227	713 New Rd.	TE
*Mades, Dorothy J.	Textiles	113 Textile	327	Rt. 1, Cary, N. C.	TE
*Magee, Aden C., III	An. Ind.	310 Polk	241	300 Chamberlain, Apt. D	TE
*Magistad, John G.	Statistics	16 Patterson	386&387	2433 Wesley Dr.	TE
*Maltbie, Armstrong	Math.	204 Tompkins	226	2829 O'Berry St.	TE
*Mangum, G. Dent, Jr.	Textiles	B-52 Textile	414&293	Laurel Hill Rd.	TE
*Mann, Thurston Jr.	Field Crops	425-A Williams	334	710 Runnymede Rd.	TE
*Manning, Elizabeth	Chem.	322 Withers	339	Rt. 1, Raleigh	TE
*March, Elsa W.	Ag. Ext.	207 Ricks	212	404 W. Whitaker Mill Rd.	TE

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>Phone</i>
Marks, Olen F.	Textiles	118 Textile	419	Pine Dr., Rt. 1, Cary, N. C.	
Marr, Rosemary S.	Print Shop	Print Shop	281	2520 Clark Ave.	TE 2-7
Mace, Marshall E.	Plant Path.	206 Gardner	382	2376 Wesley Rd.	
Maddrey, Mac	WUNC-TV	WUNC-TV	TE 4-6262	4-D Vetville	TE 4-8
Maki, T. Ewald	Forestry	152 Kilgore	406	1511 Duplin Rd.	TE 2-2
Mann, Carroll L., Jr.	C.E.	346 C. E. Bldg.	303	1412 Canterbury Rd.	TE 4-3
Manning, Edward G.	E. E.	429 Daniels	395	2913 Anderson Dr.	TE 4-3
Marsh, C. Paul	Rur. Soc.	325 1911 Bldg.	465	3017 Leonard St.	TE 4-4
Marsh, Ellis	Field Crops	156 Williams	324	2505 Beechridge Rd.	TE 3-9
Marshall, Harry G.	Military	154 Coliseum	233	House 2, Block 2, Melbourne Rd.	
Marshall, Roger P.	English	13 Winston	325	1512 Park Dr.	TE 2-5
Martin, Frank G.	Exp. Stat.	16 Patterson	386&387	211 Groveland Ave.	TE 2-6
Martin, Grady A.	Poultry	203 Scott	352	2412 Van Dyke Ave.	TE 3-6
Martin, Lee R.	Ag. Econ.	201-F Patterson	359	2120 Buckingham Rd.	TE 4-2
Martin Santford W., Jr.	Foundations	103 Pullen	253	2811 Oberlin Rd.	TE 4-1
Martin, Thomas J., Jr.	M. E.	324 Riddick	247	2401 Stafford Ave.	TE 3-8
Martin, William G.	An. Ind.	310 Polk	241	2624 Kilgore	
Martinsek, T. A.	Econ.	111 Peele	333	619 W. Jones St.	
Mason, Carol	WUNC-TV	WUNC-TV	TE 4-6262	1126 Parker St.	
Mason, David D.	Exp. Stat.	120 Patterson	313&335	3245 Lewis Farm Rd.	TE 4-7
Mason, Edna Belle	C. E.	354 C. E. Bldg.	432	1131½ Chamberlain St.	TE 2-3
Mason, Eleanor H.	Ag. Ext.	101 Ricks	244	Boylan Apts. F-201	TE 2-9
Mason, Frank Duff	Statistics	11 Patterson	386		
Matrone, Gennard	An. Ind.	311 Polk	241	1333 Duplin Rd.	TE 3-5
Matsumoto, George	Architecture	314 Brooks	437	821 Runnymede Rd.	TE 4-7
Matthews, Joyce E.	Bus. Office	1 Holladay	442	1107 Mordecai Dr., Apt. 3	TE 4-4
Matthews, R. E.	Coliseum	116 Coliseum	TE 2-0523	1708 S. Saunders St.	TE 4-2
Matthias, Martha F.	Chem.	15 Withers	383	3113 Douglas St.	TE 2-2
Mattox, John D.	Vis. Aids	3 Ricks	330	305 Wall St., Wendell, N. C.	
Mattson, E. R.	Ag. Ext.	227 Kilgore	296	1705 McDonald Lane	FO 5-5
Motsinger, Dale F.	Exp. Stat.	1-A Patterson	386or387	2504 Vanderbilt Ave.	TE 3-4
Mauney, Jack R.	Field Crops	487 Williams	300	2607½ Wade Ave.	TE 2-2
Maupin, Carey J.	Ag. Ext.	214 Scott	376	Rt. 2, Wake Forest	TE 3-5
May, Eulis L., Jr.	Horticulture	New Greenhouse	418	829 Wilford Rd.	EX 5-3
Maynard, Mrs. M. B.	Education	119 Tompkins	256	220 Chamberlain St.	TE 3-5
Mayo, Selz C.	Rur. Soc.	334 1911 Bldg.	312	2520 Greenway Ave.	TE 2-0
Mayton, R. W.	Shops	M. & O. Bldg.	392	Box 172, Cary, N. C.	TE 4-7
Meares, Jefferson S.	Physics	302 Daniels	353	2408 Everett Ave.	HO 7-3
Meares, John, Jr.	Print Shop	Print Shop	281	Rt. 6, Raleigh	TE 2-4
Mehlich, Adolf	Soils	352 Williams	220	513 N. Blount St.	
Mendenhall, William, III	Exp. Stat.	3 Patterson	386&387	UK-41 Vetville	TE 4-7
Menius, Arthur C., Jr.	Physics	5 Nuclear Reactor	229	541 Hertford St.	TE 3-5
Merritt, Emily W.	Bus. Office	1 Holladay	442	C-2 Wilmont Apt.	TE 2-1
Merritt, Ernest C.	Textiles	325 Textile	413	807 W. South St.	TE 2-3
Michaels, Albert P.	Athletics	130 Coliseum	TE 2-6934	415 Forsyth St.	TE 4-2
Middlebrooks, Richard R.	Military	154 Coliseum	233	212 E. Drewry Lane	TE 2-1
Middleton, George W.	Engr. Mech.	244 C. E. Bldg.	317	2828 Claremont Rd.	TE 4-1
Middleton, Henry M., Jr.	Textiles	133 Textile	415	2208 Creston Rd.	TE 3-8
Middleton, J. Leonard	Phil. & Rel.	204 Peele	374	1621 Lorraine Rd.	TE 2-7
Middleton, James I.	Creamery	Basement, Polk	TE 3-0531	Rt. 1, Garner, N. C.	EM 2-5
Midyette, Robert Eugene	Math.	216 Tompkins	228	125 Hillcrest Rd.	TE 2-2
Miller, E. L., Jr.	Min. Ind.	210 Page	304	2816 O'Berry St.	TE 3-4
Miller, Gene W.	Botany	262 Gardner	379	23 Daisy St.	TE 3-7
Miller, H. Max	Rur. Soc.	326 1911 Bldg.	465	304 Gold Dorm.	TE 2-9
Miller, Howard G.	Psychology	123 Tompkins	286	3421 Churchill Rd.	TE 4-7
Miller, Latham L.	Ind. & Rur. Rec.	Field House	440	820 Lake Boone Trail	TE 2-1
Miller, Philip A.	Field Crops	462 Williams	300	3015 Devonshire	TE 4-5
Miller, Reva Lucille	Textiles	115 Textile	420	2421 Beechridge	TE 3-5

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	
*Miller, William D.	Forestry	170 Kilgore	270	1907 Victoria Rd.	TE
Mills, Lucy Tuck	Registration	13-A Holladay	205	3320 Ruffin St.	TE
Mills, Ralph A., Jr.	Vis. Aids	3 Ricks	330	2737 Toxcoys Dr.	TE
*Mills, William C., Jr.	Ag. Ext.	216 Scott	377	Rt. 2, Apex, N. C.	EL
*Mills, William T.	Ag. Engr.	Ag. Engr. Bldg.	484	3411 Octavia St.	TE
*Mimms, John S.	Creamery	Basement, Polk	TE 3-0531	Adams St., Cary, N. C.	HO
*Mintz, C. S.	Ag. Ext.	209 Ricks	212	813 Woodburn Rd.	TE
*Mintz Elwood	Ag. Ext.	111 Ricks	208	911 Braden St.	TE
*Miravalle, Robert J.	Exp. Stat.	229 1911 Bldg.		12 Maiden Lane	TE
*Miravalle, Sarah Jensen	Exp. Stat.	120-F Patterson	TE 3-2454	12 Maiden Lane	TE
*Mishtowt, Basil I.	Military	154 Coliseum	233	701-B Daniels St.	TE
*Mistric, Walter J.	Entomology	328 Gardner	409	Avent Ferry Rd.	
*Mitchell, Adolphus	Engr. Mech.	246 C. E. Bldg.	317	3609 Bellevue Rd.	TE
*Mitchell, Margaret J.	Dean of Stu.	9 Holladay	215	H-9, Raleigh Apts.	TE
*Mitchell, Mary Frances	M. & O.	M. & O.	451	605 N. Blount St.	TE
*Mitchell, T. B.	Entomology	339 Gardner	409	1007 W. Peace St.	TE
*Mochrie, Richard D.	An. Ind.	15 Polk	268	116 Bynum St., Cary, N. C.	HO
Mode, Charles J.	Exp. Stat.	1-B Patterson	386&387	2717 Vanderbilt	TE
*Moen, R. O.	Econ.	113 Peele	333	3202 Clark Ave.	TE
Moffitt, Roy Bratton	Min. Ind.	216 Page	304	206 Chamberlain St.	TE
*Monroe, Robert J.	Exp. Stat.	120 Patterson	313&335	838 Woodburn Rd.	TE
*Monteith, Nancy A.	Soils	226 Williams	345	908 Marilyn Dr.	TE
*Montenegro, Enrique	Design	103 Brooks	438	3211 Churchill Rd.	
*Montgomery, Calvin C.	Air Science	139 Coliseum	314	706 E. Whitaker Mill Rd.	TE
Moore, Frances Durham	Library	112 Library	344	Rt. 2, Raleigh	TE
*Moore, Frank Harper	English	7-9 Winston	325	708 Harris St.	TE
*Moore, James L.	An. Ind.	115 Polk	268	1501 Dixie Trail	TE
*Moore, Robert P.	Field Crops	453 Williams	300	2619 Van Dyke Ave.	TE
*Moose, Perry E.	M. E.	22 Diesel	203	1515 Dixie Trail	TE
*Moreland, Donald E.	Field Crops	483-A Williams	300	4106 Reavis Rd.	TE
Morgan, E. H.	Forestry	Basement, Kilgore	270	Rt. 1, Cary, N. C.	
Morgan, Elizabeth Ann	An. Ind.	210 Polk	276&326	12 N. McDowell St.	TE
*Morgan, John W.	Chem.	115 Withers	297	2614 Van Dyke Ave.	TE
Morris, Barbara	Wolfpack Club	108 Coliseum	TE 4-2241	216 Heater St., Cary, N. C.	HO
*Morris, Christine H.	Textiles	B-48 Textile	416	1508 Frank St.	TE
*Morris, Iris W.	Ag. Ext.	13 Ricks	254	206 Wilmot Dr.	TE
*Morris, Thomas B.	Ag. Ext.	215 Scott	377	1003 Gardner	TE
Moser, Mary Sue	Ag. Ext.	206 Ricks	410	833-A Daniels St.	TE
*Moser, Rosalind R.	Textiles	B-50 Textile	416	1217 Kent Rd.	TE
*Moser, William Edwin	Textiles	201 Textile	287	300 Brooks Ave.	TE
Mote, V. L.	Exp. Stat.	233 1911 Bldg.	313&335	203 Chamberlain St.	TE
Mott, Harold	E. E.	206 Daniels	235	2018-B Smallwood Dr.	TE
*Mumford, Carey G.	Math.	224 Tompkins	228	712 Brooks Ave.	TE
*Murley, W. Ray	An. Ind.	105 Polk	268	206 Furches St.	TE
Murray, Cleo	Laundry	Laundry	283	Apt. 1, Grosvenor Gardens	TE
*Murray, F. J.	Phy. Edu.	Gym	218	2330 Grant Ave.	TE
*Murray, Raymond L.	Physics	31 Nuclear Reactor	393	2805 Kittrell Dr.	TE
*Murray, W. M.	Bus. Office	"B" Holladay	298	Cary, N. C.	HO
*Murreow, Carolyn H.	An. Ind.	315 An. Ind.	241	4203 Western Blvd.	TE
*Muse, Barbara H.	C. U.	214 C. U.	378	Cary-Macedonia Rd.	TE
*Musser, Glenn E.	Bus. Office	7 Holladay	442	504 Rose Lane.	TE
*Myers, Rev. G. Harold	Evang. & Ref.		TE 3-8407	1001 Canterbury Rd.	TE
*Myers, Patsy	Chem.	409 Williams	272	2707 Hazelwood Dr.	TE
*Myers, Richard M.	An. Ind.	Bull Barn	TE 3-0977	2812 Knowles St.	TE
*Myers, Samuel Frank	Coll. Ext.	129 1911 Bldg.	467	3804 Markham St.	TE
*Nahikian, H. M.	Math.	218 Tompkins	228	3116 Leonard St.	TE
*Nance, Virginia M.	Ag. Ext.	120 Ricks	279	1305 Duplin Rd.	TE
*Nanney, Nancy H.	Textiles	126 Textile	415	P. O. Box 5174, State Col. Sta.	TE

* Married

Name	Dept.	Office	Ext.	Address	Ph.
*Nash, Betty	Psy. Res.	112-B Tompkins	401	3-B Wilmont Apts.	TE 3-
*Nash, Rollins H.	Military	150 Coliseum	233	2154 Mayview Rd.	TE 3-
*Nash, T. Lewis	M. E.	323 Broughton	246	1626 Park Dr.	TE 2-
*Nattress, John A.	Ind. Engr.	334 Riddick	428	2845 O'Berry St.	TE 3-
*Naugher, L. D.	Ag. Ext.	134 1911 Bldg.	396	2807 Van Dyke Ave.	TE 4-
*Neal, Alene W.	Vis. Aids	3 Ricks	330	1402 Mordecai Drive	TE 2-
*Neal, John E.	Air Science	Gym	232	Alumni Bldg.	TE 2-
*Nelson, Richard	Plant Path.	201 Gardner	382	3040 Farrior Rd.	TE 4-
*Nemerow, Nelson L.	C. E.	540 C. E. Bldg.	391	2225 Lash Ave.	TE 2-
*Neuse, Durwood H.	WUNC-TV	WUNC-TV	TE 4-6262	Bagwell Dormitory	TE 2-
*Newell, William A.	Textiles	107 Textile	273	1329 Hathaway Rd.	TE 4-
*Newton, Melvin F.	Field Crops	180 Williams	324	Six Fork Rd.	TE 4-
*Nichols, Everett	Ag. Econ.	210 Patterson	308	508 Dixie Trail	TE 3-
*Nichols, Joan	C. E.	354 C. E. Bldg.	432	29C Vetville	
*Nielsen, Davora E.	Library	D. H. Hill Library	344	3208 Darien Drive	TE 4-
*Neilson, L. W.	Plant Path.	105 Gardner	380	3208 Darien Drive	TE 4-
*Niven, Jane (Mrs. B. F., Jr.)	History	112 Winston	356	2709 Mayview Rd.	TE 4-
*Nixon, David E.	Math.	204 Tompkins	226	819C Daniels Street	TE 3-
*Noble, Sylvia A.	Textiles	B-48 Textile	416	33-C Vetville	TE 4-
*Noblin, Evelyn B.	Library	D. H. Hill Library	344	Rt. 1, Garner	EM 2-
*Noblin, Stuart	Hist. & Pol. Sci.	215 Winston	356	Rt. 1, Garner	EM 2-
*Nolstad, A. R.	Math.	209 Tompkins	226	1312 Lutz Avenue	TE 4-
*Nordan, Elizabeth	An. Ind.	216 Polk	276&326	Rt. 1, Benson	517-8 or 5
*Nordan, Gladys	Print Shop	Print Shop	281	1416 Morning St.	TE 2-
*Norris, Robert L.	Print Shop	Print Shop	281	906 W. Lenior St.	TE 3-
*Norton, E. L.	Ag. Ext.	203 Ricks	243	809 Woodburn Road	TE 3-
*Nowell, Eloise B.	Bus. Office	"B" Holladay	278	608 Harp St.	TE 3-
*Nunenkamp, Victor L.	Air Science	141 Coliseum	314	200 Brooks Avenue	TE 3-
*Nusbaum, C. J.	Plant Path	102 Gardner	380	2821 Kilgore St.	TE 3-
*Nylund, F. A.	Ag. Edu.	102 Tompkins	257	1221 Canterbury Rd.	TE 3-
*Odin, Anne C.	Veteran	11 Holladay	219	Apt. 5-E, Vetville	TE 4-
*Ogren, Herman A.	Zoology	355-A Gardner	261	923 Tower Street	
		If no answer,	239		
*Ohmer, Mrs. Helen T.	Chancellor	"A" Holladay	210	2307 Lyon St.	TE 3-
*Oldham, C. R.	Print Shop	Print Shop	281	308 N. East St.	TE 2-
*Oliver, George M.	Chem.	317 Withers	339	Cary, N. C.	HO 7-
*Oliver, Robert L.	Dining Hall	Leazar	TE 3-4825-6	2921 Anderson Drv.	TE 2-
*Ollenberger, Robert W.	Military	150 Coliseum	233	Rt. 1, Cary	TE 4-
*Olsen, B. M.	Economics	107 Peele	333	1501 Ridge Road	TE 4-
*O'Neal, James M.	Horticulture	230 Hort Gr'n House	240&318	200 Pogue Street	TE 4-
			242	W-1-B Cameron Ct.	TE 4-
Orr, Nita	Ag. Ext.	216 Ricks	242	3418 Churchill Rd.	TE 4-
Orth, Edward Jos., Jr.	E. E.	431 Daniels	395	1809 W. Smallwood Dr	TE 2-
*Osborn, James R.	Air Science	139 Coliseum	314	200 Furches St.	TE 3-
*Osborne, John Clark	An. Ind.	An. Dis. Bldg.	TE 4-7336		
*Pace, Helen G.	Stu. Affairs	202 Holladay	397	2805 Bedford Ave.	TE 2-
*Padunchewit, Ittipon Paul	E. E.	208 Daniels	235	P. O Box 3219	TE 2-
*Paget, Edwin H.	English	221-223 Winston	325	2733 Everett Ave.	TE 2-
*Paige, Vivian B.	Exp. Stat.	4 Patterson	386&387	Millbrook, N. C.	TE 3-
*Pardue, James E.	Textiles	142 Textile	416	333 Wilmot Dr.	TE 4-
*Park, Hubert V.	Math.	218 Tompkins	228	3120 Darien Drive	TE 2-
*Parker, Blaine F.	Ag. Engr.	Ag. Engr. Bldg.	461	Rt. 4, Raleigh	HO 7-
*Parker, Carolyn W.	Exp. Stat.	4 Patterson	386	1006 Gorman St.	TE 4-
*Parker, Emily F.	An. Ind.	309 Polk	241	113 Ashe Ave.	TE 2-
*Parker, Gladys P.	Infirmiry	Clark	TE 2-7615	1600 Brooks Ave.	TE 2-
*Parker, J. Harold	Exp. Sta.	118 Ricks	208	216½ Benson Hgwy., Garner	EM 2-
*Parker, James S.	Textiles	307 Textile	419	107 Wilmot Drive	

* Married

Name	Dept.	Office	Ext.	Address	P
*Parker, Jeralyn K.	Library	112 Library	344	3005 Leonard St.	TE 4
*Parker, John M., III	Min. Ind.	205 Page	304	Darien Drive	TE 3
*Parker, L. Y.	An. Ind.	Farm	TE 2-8901	Western Blvd.	TE 2
*Parrish, Clifton F.	Ag. Ext.	211 Scott	377	526 Powell Drive	TE 2
*Parrish, Leon I.	M. & O.	M. & O. Bldg.	234	Rt. 2, Clayton	
*Parrish, Thomas F.	Textiles	325 Textile	413	410 W. Front	Clayton
*Parsons, Guy S.	Ag. Ext.	104½ Polk	277	213 Ashe Avenue	TE 4
*Partin, C. Allen	An. Ind.	115 Polk	TE 2-9763	College Dairy Farm	TE 3
*Pate, Rudolph	News Bureau	102 Holladay	253	16 Bagwell Ave.	TE 3
*Patten, H. A.	Agriculture	101-C Patterson	471	13 Furches St.	TE 2
Patterson, James W.	Ag. Ext.	201 Polk	269	0-4 Raleigh Apts.	TE 3
*Patton, Carlotta Peterson	Math.	205 Tompkins	226	614 E. Franklin St.	Chap. Hill
*Paulson, J. D.	Math.	216 Tompkins	228	2705 Everette Ave.	TE 3
*Pearce, John W.	Ag. Ext.	21 Ricks	254	Rt. 1, Box 242, Cary	TE 4
*Pearsall, Robert J.	E. E.	206 Daniels	235	Holly Springs, N. C.	454
*Peedin, Dianne B.	Engr. Res.	124 Riddick	248&423	16 N Boylan Ave.	TE 2
*Peedin, Parker C.	Engr. Res.	134 Riddick	426	16 N. Boylan Ave.	TE 2
*Pendergraft, Dwight O.	Physics	101 Daniels	353	2347 Bernard St.	TE 4
*Penn, Peter T.	Chem.	406 Williams	272	803 New Bern Ave.	
*Pennington, Mildred C.	Exp. Stat.	120-H Patterson	TE 3-2454	611 Gaston St.	TE 3
*Penny, Robert F.	Engr. Res.	10 Riddick	425	918 Bernard St.	TE 4
*Peppler, Albert P.	Athletic	130 Coliseum	TE 2-6934	522 Vick Ave.	TE 2
*Perry, Astor	Ag. Ext.	451 Williams	329	3415½ Hillsboro St.	TE 3
*Person, Lee H.	Plant Path.	202 Gardner	382	1514 Lutz Ave.	TE 4
*Peterson, D. M.	Math.	220 Tompkins	228	1201 Canterbury Rd.	TE 3
*Peterson, Walter J.	Chem.	107 Withers	266	1121 Harvey Street	TE 3
*Peterson, Walter J.	Grad. School	145 Gardner	429	1121 Harvey St.	TE 3
*Petrea, Howard A.	Math.	209 Tompkins	226	20 Furches Street	TE 2
*Phelps, Peggy S.	Chem.	108 Withers	266	Apt. 31-H, Verville	TE 4
*Philbrick, Corrinne S.	Main Desk	C. U.	TE 4-7318	Cary, N. C.	HO 7
*Phillips, L. B.	Print Shop	Print Shop	TE 3-4151&281	2811 O'Berry St.	TE 2
*Phillips, Lyle L.	Field Crops	482 Williams	300	801 Beaver Dam Rd.	TE 3
*Phillips, Travis	Ag. Econ.	212 Patterson	308	711 Prichard Ave. Ext.	
*Pickering, Elizabeth H.	Chem.	113 Withers	297	315 Cutler Street	TE 3
*Pierce, Walter H.	Ag. Econ.	203-B Patterson	358	904 Powell Dr., Garner	EM 2
*Pike, F. Philips	Chem. Engr.	315 Riddick	402	2604 Dover Road	TE 3
*Pikner, V. A.	Econ.	109 Peele	333	1209 Cheney Rd.	TE 3
*Piland, J. R.	Soils	326 Williams	209	2406 Stafford Ave.	TE 2
*Piland, John E.	Ag. Ext.	303 Ricks	388	3104 Darien Drive	TE 4
*Piland, Newbern E.	Econ.	231 1911 Bldg.	333	Chapel Hill, N. C.	8
Pilley, Lucille J.	Vet. Housing	UK-5 Verville	TE 2-4306	2216 St. Marv's St.	TE 2
Pinkerton, Claire R.	Registration	13-A Holladay	205	2502 Vanderbilt Ave.	TE 2
*Pinkerton, Robert M.	M. E.	121 Broughton	450	2502 Vanderbilt Ave.	TE 2
Pirnat, Miriam Tilley	Ag. Ext.	103 Polk	321&277	6 North Bloodworth St.	TE 2
*Pittman, H. V.	Plant Path.	114 Gardner	373	Wendell, N. C.	
Place, Frank R.	Soc. Studies	209 Winston	200	Apt. C-4, Country Club	Home
*Plank, Charles	Ch.E.	106 Riddick	309	1204 Mitchell St.	TE 4
*Poindexter, Betty Ann	Purchasing	200 Morris	230	Apt. 8-C, Verville	TE 4
*Pointer, John Pate	Soils	424 Williams	334	3314 Pollock Place	TE 4
Poland, George W.	Mod. Lang.	205 Peele	231	Raleigh, Rt. 6	TE 3
*Poole, Anne L.	Bus. Office	103 Holladay	443	D-5 Shelton Apts.	
*Poole, Barbara Byrd	Stu. Affairs	207 Holladay	434	313 West Park, Cary	HO 7
*Poole, Mrs. Bruce G.	Zoology	156 Gardner	239	122 Brooks Ave.	TE 2
Poole, Dorsey E.	Athletic	Col. Equip. Rm.		1515 Handover St.	TE 3
			TE 2-2407		
Poole, Joyce	Zoology	168 Gardner	239	500 W. Park Dr.	TE 2
*Poole, Lewis L.	Plant Path.	111 Gardner	373	Rt. 2, Raleigh	TE 4
Poole, Mary Elizabeth	Library	118 Library	398	221 Hawthorn Rd.	TE 3

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	
*Pope, Daniel T.	Horticulture	212 Kilgore	318	2710 Wayland Dr.	TE 2
*Porter, Ann	Entomology	336 Gardner	409	2811½ O'Berry St.	TE 4
*Porter, Jack	English	221-223 Winston	325	2929 Wade Ave.	TE 4
*Porter, Joseph A.	Textiles	105 Textile	289	1225 Brooks Ave.	TE 4
*Porter, Lynn	Soils	388-A Williams	220	2811½ O'Berry St.	TE 4
*Pou, J. W.	An. Ind.	117 Polk	320&431	2606 Wade Ave.	TE 2
*Powell, Ben C.	Ag. Engr.	Ag. Engr. Bldg.	405	Route 2, Clayton	TE 2
Powell, Dennis S.	Plant Path.	Greenhouse	373	Rt. 3, Smithfield	TE 2
*Powell, Leon	Textiles	142 Textile	416	212 N. Bloodworth St.	TE 2
*Powell, N. T.	Plant Path.	200 Gardner	382	UK45 Vetville	TE 2
*Powell, William	Plant Path.	206 Gardner	382	UK-38 Vetville	TE 2
Prairie, Richard	Exp. Stat.	226 1911 Bldg.	313&335	203 Groveland Ave.	TE 2
*Preston, Marjorie	Ag. Ext.	209 Patterson	291	2705-B, Gordon St.	TE 4
*Preston, R. J.	Forestry	160 Kilgore	270&282	3201 Churchill Rd.	TE 2
*Price, Ruth D.	Print Shop	Print Shop	281	221 Elm St.	TE 4
*Prince, Thomas A.	M. E.	20 Broughton	246	Rt. 4, Raleigh,	TE 4
Pritchard, Gerald Ian	An. Ind.	310 Polk	241	Gold Dorm.	TE 2
Pritchard, Iola	Ag. Ext.	214 Ricks	242	2402 Clark Ave.	TE 4
Pritchett, Carolyn	Ag. Ext.	210 Scott	376	100 Faircloth	TE 4
*Proffer, Byron S.	Military	150 Coliseum	233	1217 Kent Road	TE 4
Provost, George Foster	English	217-219 Winston	325	1621 Park Drive	TE 2
*Pugh, Charles	Ag. Ext.	220-B Patterson	306	361 Wilmot Dr.	TE 2
*Quay, Thomas L.	Zoology	242 Gardner	445	2608 Barmettler St.	TE 2
*Raab, Kenneth Dale	Registration	13-C Holladay	219	Garner, N. C.	EM 2
*Raab, R. L.	Entomology	237 Gardner	384	373 Wilmot Dr.	TE 4
*Raby, Catherine L.	M. & O.	100 Morris	328	204 Park Ave.	TE 2
Raby, M. Louise	Phy. Edu.	Gym	218	200 Woodburn Rd.	TE 2
*Ragland, Eloise R.	Textiles	B-50 Textile	414&416	3046 Farrior Rd.	TE 2
Ragland, John L.	Soils	331-A Williams	209	1004 Nichols Dr.	TE 2
Ram, Peretz	Ag. Econ.	210 Patterson	308	136 Woodburn Rd.	TE 2
*Ramsey, Harold A.	An. Ind.	310 Polk	241	3023 Lewis Farm Rd.	TE 4
*Randall, Glenn O.	Horticulture	126 Kilgore	275&455	Rt. 6, Creedmore Rd.	TE 3
*Randolph, G. Meares	Textiles	1 Textile	288	2362 Grant Ave.	TE 4
*Randolph, Hal D.	E. E.	208 Daniels	235	407 Horne St.	TE 4
*Randolph, Marjorie J.	Soc. Studies	212 Winston	200	407 Horne St.	TE 4
*Rankin, Jean	Horticulture	201 Kilgore	318	3812 Western Blvd.	TE 2
*Rankin, W. H.	Soils	105 Williams	345	2408 Stafford Ave.	TE 2
*Ratchford, C. Brice	Ag. Ext.	110 Ricks	213	2701 Kilgore St.	TE 3
*Rawls, Horace D.	Soc. & Anthrop.	201-B Peele	374	3021 Banbury Rd.	TE 2
*Ray, L. L.	Foundations	"A" Holladay	322	720 Lake Boone Tr.	TE 4
*Raynor, Jean H.	Ag. Ext.	250 Williams	294	2328 Bernard St.	TE 3
*Reavis, Lou B.	Chem.	108 Withers	266	35-C, Vetville	TE 3
Redfern, Robert B.	Ag. Ext.	204 Polk	319	1105 Dogwood Lane	TE 2
*Redman, George Paul	Indus. Engr.	338 Riddick	428	3807 Poole St.	TE 4
*Reece, Nancy F.	Registration	14 Holladay	205	1121½ Shepherd St.	TE 2
Reid, Elbert	Ag. Ext.	120 Ricks	279	111 Berkshire Road	TE 3
*Reid, James Paul	Textiles	9 Textile	288	Rt. 1, Raleigh	TE 2
*Reid, Preston H.	Soils	386-A Williams	363	819 Merrie Rd.	TE 4
*Reid, Willis A.	Chem.	113 Withers	297	1439 Dixie Trail	TE 2
*Reitzer, Ladislav Francis	Hist. & Pol. Sci.	111 Winston	356	107 Glenwood Ave.	TE 3
*Rembert, Dahlia	Field Crops	106 Williams	222	405 Gardner St.	TE 3
*Reynolds, Margaret B.	Plant Path.	10 Gardner	336	2949 Winchester Ct.	TE 4
*Reynolds, Mildred H.	Phil. & Rel.	204 Peele	374	3046 Lewis Farm Road	TE 3
*Rhodes, Sallie C.	Chem.	402 Williams	272	1100 Popular Ave., Garner	EM 2
*Rhyné, Claude L.	Field Crops	466 Williams	300	Wilmont Drive	TE 2

* Married

Name	Dept.	Office	Ext.	Address	P.
*Rice, Evelyn K.	Zoology	360 Gardner	261	319 Morrison Ave.	TE 2-
*Rice, John C.	Crop Imp.	193 Williams	207	109 N. Lord Ashley Rd.	TE 2-
	Assoc.		& TE 4-7542		
*Rice, Pansy R.	USDA-ARS	312 Polk	206	310 Furches St.	TE 3-
*Rice, Philip M.	Hist. & Pol. Sci.	109 Winston	356	1306 Rand Dr.	TE 3-
Rice, Robert B.	M. E.	20 Diesel	323	2712 Cambridge Road	TE 2-
Rice, V. A.	Agriculture	111 Patterson	331&362	1833 Smallwood Dr.	TE 2-
Richardson, Frances M.	Engr. Res.	342 Riddick	309	G-4, Raleigh Apts.	TE 4-
Richardson, H. O.	Plant Path.	Greenhouse	373	Rt. 2, Raleigh	
*Rieck, William J., Jr.	Military	142 Coliseum	233	2717 St. Mary's St.	TE 3-
Riggan, Wilson B.	Ag. Econ.	210 Patterson	308	1302 Hillsboro St.	TE 4-
*Ringler, Robert L.	Chemistry	405 Williams	272	2152 Mayview Rd.	TE 4-
Rigney, J. A.	Exp. Stat.	114 Patterson	313&335	2607 Wade Ave.	TE 2-
*Risher, James F. Jr.	Military	145 Coliseum	TE 4-5161	305 West Park Dr.	TE 4-
			& 314		
*Ritchie, Mildred C.	Ag. Ext.	103 Polk	277&321	Apt. 21E, Vetville	TE 2-
*Ritchie, Ray M., Jr.	Ag. Engr.	315 Ricks	274&389	Walnut Trail, Rt. 4	TE 3-
Rivers, Clarence B.	An. Ind.	Farm	TE 2-9763	College Dairy Farm, Hillsboro	R
*Roberts, William M.	Dairy Mfg.	204 Polk	371	1305 Lutz Ave.	TE 3-
*Robertson, Donnavce	Poultry	10 Scott	474	18 H Vetville	
*Robertson, Zelda G.	Business Office	3 Holladay	316	2117 St. Mary's St.	TE 3-
Robinson, Allan Ray	Visual Aids	3 Ricks	330	717 Chamberlain St.	
*Robinson, Cowin C.	Chemistry	301 Withers	339	1407 Lutz Ave.	TE 3-
*Robinson, Harold F.	Exp. Stat.	1-D Patterson	386&387	2126 Buckingham Rd.	TE 2-
		If no answer,	313&335		
*Robinson, Martha G.	Craft Shop	C. U.	378	903 St. Mary's St.	TE 4-
*Robinson, Mendell L. Jr.	Textiles	325 Textile	413	Apt. W-3, Country Club	Home
Rogers, Jacqueline	Soils	222 Williams	470	3314 Pollock Place	TE 3-
Rogers, Lyle B.	Student Affairs	201 Holladay	397&224	2718 Cartier Dr.	TE 3-
Roland, Patricia Y.	Ag. Ext.	120 Ricks	279	2618 Wade Ave.	TE 4-
*Rosengweig, Rabbi E. M.	Jewish			Chapel Hill, N. C.	
Ross, John P.	Plant Pathology	209 Gardner	310	Apt. P-Glenwood Arms	TE 2-
Ross, Larry L.	Print Shop	Print Shop	281	202 Lombard St., Clayton	
*Rothrock, Reva V.	Library	D. H. Hill Library	259	107 Ashe Avenue	TE 2-
Rowe, Beatrice	English	118 Winston	325	1709 Hillsboro St.	TE 2-
Rowland, Macon R.	M & O	102 Morris Bldg.	392	634 Stacy St.	TE 2-
*Rozett, Robert	Chem. Eng.	308 Riddick	402	Apt. C-201 Boylan	TE 4-
Rud, Orvin E.	Field Crops	457-A Williams	300	817 Rosemont Ave.	TE 3-
Rudy, Margaret B.	Dining Hall	Leazar	TE 3-4825-6	2823 Barmettler St.	TE 2-
Ruffin, Helen	Exp. Statistics	112 Patterson	313&335	705 N. East St.	TE 2-
*Ruggles, Edward W.	Col. Ext. Div.	118 1911 Bldg.	TE 4-3333	2411 Everett Ave.	TE 2-
			& 238		
Rulfs, Donald J.	English	123 Winston	325	224 Hawthorne Road	TE 2-
Russell, Forrest C.	S. S. S.	YMCA	TE 2-3674&225	210 Gray St., Carv	HO 7-
Russell, Kenneth M.	Air Science	145 Coliseum	314	602 E. Whitaker Mill Rd.	TE 3-
*Rust, Paul J.	Psychology	111-A Tompkins	365	2300 Poole Road	TE 4-
*Rutherford, Henry A.	Textiles	21 Textile	341	Six Fork Rd.	TE 3-
*Rutherford, Norma	Animal Industry	117 Polk	320&431	Six Fork Rd, Box 5751	TE 3-
Sanchez, Carlos	Soils	408 Williams	334	123 Brooks	
*Sanderford, Mavis D.	Agri. Expt.	104 Patterson	444	102 Horne St.	TE 3-
			& TE 2-6526		
Sappenfield, Charles	Architecture	214 Brooks	438	2504 1/2 Vanderbilt	TE 4-
*Sasser, J. N.	Plant Pathology	107 Gardner	380	2634 Kilgore Ave.	TE 3-
Satterfield, G. Howard	Chemistry	201 Withers	264	407 W. Park Drive	TE 2-
*Scarborough, C. C.	Ag. Educ.	103 Tompkins	257	2604 Barmettler St.	TE 4-
*Schaaf, Herman E.	Military	154 Coliseum	233	RFD 4, Raleigh	TE 4-
*Scharnberg, Richard L.	Col. Ext.	129 1911 Bldg.	467	1409 Beaver Dam Dr.	TE 4-
Schaub, Maud K.	Ag. Ext.	309 Ricks	367	1011 Schaub Drive	TE 2-

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>P</i>
*Scheiper, Irmgard	Inst of Stat.	110 Patterson	375	1315 Beaver Dam Dr.	TE 3
*Schmitt, Marshall	Langdon	I. A. 106 Tompkins	258	1320 Crabapple Lane	TE 3
*Schneider, G. W.	Hort.	224 Kilgore	318	212 Taylor Street	TE 4
*Schoenborn, Edward M. Jr.	Chem. Eng.	113 Riddick	301	3114 Sussex Road	TE 2
*Schramm, Robert J., Jr.	Horticulture	128 Kilgore	275or455	502 Walnut St., Cary	HO 7
*Schrum, Nancy	Entomology	232 Gardner	384	Tex's Trailer Park	TE 2
*Schofield, H. T.	Botany	250 Gardner	267	3402 Bradley Place	TE 3
Scott, D. J.	Col. Ext.	123 1911 Bldg.	260or238	1418 Park Drive	TE 2
*Scott, H. Eldon	Agri. Ext.	140 Gardner	201	1022 W. South St.	TE 2
Scott, Nancy	Alumni Office	Alumni Bldg.	TE 3-1010	1715 Park Dr.	TE 2
			&252		
*Seagraves, James A.	Ag. Econ.	201-F Patterson	359	2334 Grant Ave.	
*Seegers, L. Walter	Hist. & Pol. Sci.	215 Winston	356	2701 Mayview Rd.	TE 2
*Seely, J. Frank	Chem. Eng.	216 Riddick	357	2815 Barmettler St.	TE 2
*Selfridge, Harold R.	Air Science	141 Coliseum	314	3033 Farrior Rd.	TE 3
*Seltmann, Heinz	Botany	252 Gardner	267	113 Chamberlain St.	TE 3
*Senger, Marvin E.	Ag. Ext.	104½ Polk	277	Rt. 4, Raleigh	TE 4
*Senter, C. T.	S. S. S.	YMCA	TE 2-3674&225	Box 61-B, Rt. 3, Raleigh	TE 2
Senter, Mary Ellen	Library	Library	372	213 Woodburn Road	TE 3
*Setzer, Emily E.	Horticulture	118 Kilgore	318	2906 Everett Ave.	TE 4
*Setzer, Thomas V.	Wat. Bk. Shop	Watauga	337	2906 Everett Ave.	TE 4
*Sexton, Dolores S.	Ag. Ext.	114 Ricks	472	East Lakeside Dr.	TE 4
*Shahdan, Peter	Math.	204 Tompkins	226	624 Grove Avenue	TE 2
Shearin, Virginia J.	Textiles	21 Textile	341&288	116 Forest Road	TE 4
*Shelley, A. Bernard R.	English	121 Winston	325	810 Chamberlain St.	TE 2
*Sherwood, F. W.	An. Ind.	301 Polk	241	318 North Boundary St.	TE 2
*Shinn, W. E.	Textiles	104 Textile	289	2709 Bedford Ave.	TE 2
*Shipley, Mildred K.	N. C. Crop Imp.	193 Williams	207	811 W. Johnson St.	TE 2
			& TE 4-7542		
Shirley, Mrs. Alice A.	Student Aff.	207 Holladay	370	2515 Clark Ave.	TE 2
*Shirley, John W.	Dean of Faculty	110 Holladay	466	2618 Lake View Dr.	TE 3
*Shoffner, Robert W.	Ag. Ext.	106 Ricks	213	3101 Darien Drive	TE 2
*Shostag, Thea	Botany	227 Gardner	379	2727½ St. Mary's St.	TE 4
*Showalter, Merle Franklin	Chemistry	113 Withers	297	2820 Barmettler St.	TE 2
Shuford, Mrs. Forrest H.	Library	Library	372	810 W. Johnson St.	TE 2
*Shugart, Fred	Textiles	325 Textile	413	3110 Raymond St.	TE 3
*Shulenberger, C. B.	Economics	115 Peele	333	2501 Stafford Ave.	TE 2
*Simmons, Raymond O.	Chemistry	203 Withers	339	Rt. 4, Raleigh	TE 4
Simon, Herbert B.	Design	214 Brooks	438	13½ Maiden Lane	TE 3
*Sims, Barbara Anne	Engr. Res.	236 Riddick	436	3117½ Georgian Terrace	TE 4
Singh, Harswarup	Ag. Econ.	201-G Patterson	359	212 Gold Hall	TE 2
*Singletary, H. M.	Ag. Ext.	203 Ricks	243	717 Powell Drive	TE 4
Sisler, Edward C.	Botany	252 Gardner	379or267	8 Ferndell Lane	TE 2
Slater, Betty Sue	General Studies	105 Peele	223	108 Georgetown Rd.	TE 2
*Sloan, Emma Lou	Elec. Eng.	320 Daniels	236	Apt. 35-G, Verville	TE 2
*Sloan, Fred S.	Ag. Ext.	109 Ricks	292	1407 Canterbury Rd.	TE 3
*Slocum, George K.	Forestry	258 Kilgore	406	226 Woodburn Rd.	TE 2
Slocum, Shirley L.	Textiles	102 Textile	289	226 Woodburn Rd.	TE 2
*Smallwood, Charles Jr.	Civil Eng.	452 C. E. Bldg.	391	305 Transylvania Ave.	TE 3
Smallwood, Robert Talmadge	An. Ind.	209 Polk	319	19 Bagwell Ave.	TE 3
*Smaltz, William Robert	Athletics	130 Coliseum	TE 2-6934	517 Lansing Ave.	TE 3
*Smart, Virginia W.	An. Ind.	302 Polk	241	311 Meredith St.	TE 3
*Smart, William W. G. Jr.	An. Ind.	101-E Patterson	313&335	311 Meredith St.	TE 3
*Smiley, Lu	Ag. Econ.	201-A Patterson	359	2902 Everett Ave.	TE 2
*Smirnoff, Michael V	Civil Eng.	144 C. E. Bldg.	303	1108 Daniels St.	TE 4
*Smith, Alma	Ag. Eng.	200-B Mangum	461	3309 Ridge Drive	TE 4
*Smith, Ben W.	Genetics	342 Gardner	385	701 Runnymede Rd.	TE 2
*Smith, C. F.	Entomology	142 Gardner	408	2716 Rosedale	TE 2
*Smith, Doris	Ag. Ext.	128 Williams	222	Rt. 5, Raleigh	TE 2

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>P.</i>
*Smith, F. H.	An. Ind.	315 Polk	241	2506 Stafford Ave.	TE 2
*Smith, G. Wallace	Eng. Mech.	240 C. E. Bldg.	317	222 Hawthorne St.	TE 2
*Smith, J. McCree	M & O	101 Morris Bldg.	328	Rt. 1, Cary	TE 2
*Smith, K.	Physics	312 Daniels	353	2713 Kittrell Dr.	
Smith, M. Carolyn	Eng. Res.	124 Riddick	423&248	Apt 3, Woman's Club	TE 4
Smith, Marian Audrey	Bus. Off.	1 Holladay	442	Rose Lane	TE 3
Smith, Marion	Poultry	118 Scott	368	X-2B Cameron Ct. Apt.	TE 2
Smith, Norwood	English	7-9 Winston	325	1710 Park Drive	TE 4
*Smith, Sue	Ag. Exp. Sta.	101-A Patterson	369	114 Faircloth St.	TE 2
*Smith, William E.	Physical Edu.	Gym	218	2611 Kittrell Drive	TE 3
*Smith, William E.	Textiles	303 Textile	287	Box 126, Fuquay-Varina	4
Smith, Zoe H.	Chemistry	310 Withers	339		
*Snell, Oliver S.	M. E.	20 Broughton	246	Crestline Ave.	TE 2
Snyder, Anne Campbell	Mod. Lang.	205 Peele	231	1812 Arlington St.	TE 3
*Snyder, R. H.	Physics	306 Daniels	483	Gorman St.	TE 2
*Sonner, William H.	Physical Edu.	Gym	218	1436 Curfman Ave.	TE 4
*Sorrrell, Victor	Athletics	106 Coliseum	TE 4-2241	RFD 3, Raleigh	TE 3
*Sox, Jason L.	Math.	204 Tompkins	226	Cary, N. C.	
*Spain, George E.	Ag. Ext.	130 Williams	222	19 Daisy St.	TE 2
*Spaine, Lawrence F.	Civil Eng.	144 C. E. Bldg.	303	1802 Fairview Road	TE 3
*Speck, Marvin L.	An. Ind.	211 Polk	319	3204 Churchill Rd.	TE 4
*Speece, H. E.	Math.	216 Tompkins	228	3408 Wade Ave.	TE 4
Spencer, Julia	Ag. Ext.	202 Ricks	214	1251½ Woodburn Rd.	TE 4
*Spinella, Tyrus R.	Military	140 Coliseum	233	3443 Redbud Lane	TE 4
*Spink, W. T.	Entomology	237 Gardner	384	UK-42 Verville	
*Splinter, William E.	Ag. Eng.	102 Mangum	342	2905 Barmettler St.	TE 3
*Spruill, Iris G.	Field Crops	256 Williams	262	Williams Trailer Ct., Rt.	1, Cary
					TE 3
*Spung, Helen	Food Service	C. U.	TE 4-7310	2020 B Smallwood Dr.	TE 2
*Spyhalski, Edward	Entomology	341 Gardner	409	2300 McMullan Circle	TE 4
*Spyhalski, Katherine H.	Eng. Res.	217 Riddick	357	2300 McMullan Circle	TE 4
*Stadelmaier, Hans H.	Eng. Res.	139 Riddick	425	K-3-B, Cameron Court Apts.	
*Stainback, Raymond F.	Physics	400 Daniels	483	2413 Everett Avenue	TE 3
*Stansel, David B.	Col. Ext.	120 1911 Bldg.	TE 4-3333 or 260	1315 Crabapple Lane	TE 3
*Stanton, Mary S.	Exp. Stat.	2 Patterson	386&387	2502 Clark Ave.	TE 2
Stanton, Verna	Ag. Ext.	103 Ricks	244	H-6, Raleigh Apts.	TE 2
*Starnes, M. Eugene	Col. Ext. Div.	119 1911 Bldg.	260or238	Holly Springs Road	TE 2
*Steele, Sharon	Indus. Eng.	328 Riddick	307	3106 Douglas St.	TE 4
*Stemberger, Anthony P.	Ag. Econ.	201-G Patterson	359	3304 Dunn Ave.	TE 4
*Stephen, W. A.	Ag. Ext.	139 Gardner	201	Cary, N. C.	HO 7
*Stephens, Stanley George	Genetics	353 Gardner	385	Rt. 6, Ridge Rd.	TE 3
Stevens, Ann	N. C. Crop Imp. Asso.	189 Williams	207	2409 Stafford Ave.	TE 2
*Stevens, Floyd L.	Field Crops	457 Williams	300	5404 Hillsboro Rd.	TE 2
*Stevens, Seleta F.	Ag. Ext.	209 Patterson	291	2909 Stafford Ave.	TE 2
*Stevenson, Emerette Lane	Field Crops	102-A Williams	222	3103 Raymond St.	TE 3
*Stevenson, Lois	Soils	306-A Williams	209	215 Taylor St.	TE 3
*Stevenson, Wm. D., Jr.	Elec. Eng.	327 Daniels	430	2706 White Oak Rd.	TE 4
*Stewart, H. A.	Ag. Exp. Sta.	102 Patterson	471	829 Woodburn Rd.	TE 3
*Stewart, Harry E.	Wolfpack Club	108 Coliseum	TE 4-2241	1800 St. Mary's St.	TE 3
*Stewart, James J., Jr.	Dean Stu. Mf.	206 Holladay	456	2313 Anderson Dr.	TE 3
*Stillev, Thelma	Textiles	325 Textile	413	1116 Fuller St.	TE 4
*Stinson, Edward Hoyle	Mech. Eng.	31 Deisel	246	108 Horne St.	TE 3
Stoker, Susan F.	Ag. Ext.	318 Ricks	274&389	915 West Johnson St.	TE 2
*Stott, Charles C.	Ind. & Rural Rec.	Field House	440	1017 Gardner St.	TE 4
Stott, Estelle	Ag. Ext.	114 Ricks	208&472	2208 Hope St.	TE 2
Stott, Juanita	Registration	13 Holladay	351	2208 Hope St.	TE 2
*Strickland, Margaret F.	Ag. Ext.	304 Ricks	221	2319 Bernard St.	

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>Ph.</i>
*Strider, David L.	Horticulture	222 Kilgore	318	U-K 37 Vetville	
*Strother, Robert Ed	Alumni Office	Alumni Bldg.	TE 3-1010 & 252	1307 Beaver Dam Dr.	TE 3-
*Stroup, Rose Marie	Registration	10 Holladay	351	P-3 Country Club Homes	TE 4-
Struzeski, Edmund J., Jr.	Civil Eng.	448 C. E. Bldg.	391	308 Gold Dorm.	
*Stuart, Archie D.	Ag. Ext.	126 Williams	222	Apt. M. Glenwood	TE 4-
*Stuart, Duncan R.	Design	213 Brooks	437	1716 Scales St.	
*Stuckey, William C., Jr.	Textiles	B-49 Textile	414	1114 Carlton Ave.	TE
Sturdivant, Thomas I.	Col. Ext.	125 1911 Bldg.	238&260	Garner, N. C.	
*Suberman, Jack	English	17-19 Winston	325	1314 Crabapple Lane	TE 3-
Succo, John A.	Chemistry	109 Withers	266		
*Suggs, Charles W.	Ag. Engr.	102 Mangum	342	718 Rosemont Ave.	TE 4-
*Sumner, Albert	College Union	C. U.	TE 4-7318	407 Salem St.,	Dun
*Sumner, Baye	Purchasing	200 Morris	230	2517 Clark Ave.	TE 3-
*Sutherland, A. G., Jr.	Dining Hall	Leazar	TE 3-4825-6	1310 Glenwood Ave.	TE 4-
*Sutherland, Joseph Gwyn	Ag. Econ.	201-D Patterson	355	1016 Faircloth St.	TE 3-
*Sutton, Paul Porter	Chemistry	20 Withers	383	1115 Wake Forest Rd.	TE 3-
*Swain, Louis H.	English	221-223 Winston	325	2268 The Circle	TE 2-
*Swicegood, Ursula R.	Textiles	325 Textile	413	Apt. 33-B, Vetville	TE 4-
*Swiger, James R.	Personnel	Primrose	481	3221 Lewis Farm Rd.	TE 4-
*Sykes, Jean W.	Textiles	142 Textile	416	Apt. G-30, Vetville	TE 3-
Sykes, LaVerne	Admissions	14 Holladay	205	1013 St. Mary's St.	TE 2-
Talley, Banks C., Jr.	Student Affairs	207 Holladay	370	B-7, Wilmont Apt.	TE 4-
*Tanner, James T.	Engr. Res.	Riddick Annex	347	2953 Glenwood Apt.	
Tanner, Mattathias	Mullins Stu. Aff.	203-B Holladay	397	425 Wait St., Wake Forest, N. C.	
*Tant, William E.	S. S. S.	YMCA	225	122 Henderson St.	TE 4-
Tapp, James D.	Eng. Mech.	246 C. E. Bldg.	317	21 Enterprise St.	TE 2-
Tardif, Gilbert	Exp. Stat.	16 Patterson	386&387	407 West Park Dr.	TE 2-
*Taylor, Edward	A. H. Farm	Farm	TE 3-8417	Rt. 1, Cary, N. C.	TE 3-
*Taylor, H. W.	Alumni Affairs	Alumni Bldg.	TE 3-1010 & 252	2820 Bedford Ave.	TE 2-
Taylor, Jack	Plant Path.	206 Gardner	310	UK 21 Vetville	
*Taylor, J. C., Jr.	Horticulture	212 Kilgore	318	512 Powell Drive	TE 2-
*Taylor, Margaret G.	Textiles	B-48 Textile	416	224 Woodburn Road	TE 2-
Taylor, Maxine	Botany	252 Gardner	379	Box 218, Cary, N. C.	HO 7-
Taylor, Maybelle	Forestry	P & P Lab.	TE 4-2235	1013½ Mordecai Drive	TE 3-
*Taylor, Melvin B.	Print Shop	Print Shop	281	1333 Canterbury Road	TE 3-
Taylor, Stuart V.	Animal Industry	A. H. Farm	TE 4-3255	Rt. 1, Cary, N. C.	TE 4-
*Terrell, Charles W.	Physics	16 Nuclear Reactor	393	1404 Crest Rd.	TE 4-
*Terrell, Emily	Psychology	123 Tompkins	286	1404 Crest Rd.	TE 4-
Terrill, Walter Lee	Athletics	120 Coliseum	TE 4-1881	3404 Wade Ave.	TE 4-
*Teszler, Ann P.	Chemistry	402 Williams	272	2303 Churchill Rd.	TE 3-
*Teszler, Otto	Textiles	22 Textile	288	1702 Hillsboro St.	TE 3-
Tew, Margaret Agnes	Business	Holladay	278	1314 Glenwood Ave.	TE 2-
*Tharpe, Imogene C.	Textiles	B-53 Textile	416	Box 638, Cary, N. C.	
*Tharrington, Carol	Bus. Off.	1 Holladay	442	2320 Anderson Dr.	TE 4-
*Thomas, Grant W.	Soils	355-A Williams	363	990 Wilmington Terrace	
*Thomas, H. C.	Military	Gym	232	Powell Drive	TE 2-
*Thomas, Walter E.	An. Ind.	105 Polk	268	RFD 1, Cary, N. C.	HO 7-
*Thompson, Donald L.	Field Crops	131-A Williams	263	Garner Loop Rd.	EM 2-
Thompson, Frances	Alumni Office	Alumni Bldg.	TE 3-1010 & 252	109 E. Whitaker Mill Rd.	TE 2-
*Thompson, O. G.	Economics	116 Peele	333	3009 Mayview Rd.	TE 3-
*Thompson, Rosa G.	Tel. Exc.	117 Winston	0	1702 Dare St.	TE 2-
*Thompson, Ruthie	Exp. Stat.	4 Patterson	386&387	Clayton, N. C.	
Thompson, Sally	Entomology	234 Gardner	384	1704 Center Road	TE 4-
*Thorne, Maynard G.	Eng. Res.	346 Riddick	427	1605 Van Dyke Ave	TE 4-
Thorup, James T.	Soils	351-A Williams	363	2714 Rosedale	

* Married

Name	Dept.	Office	Ext.	Address	P
Thorup, Richard	Soils	351-A Williams	363	2714 Rosedale	
*Thurlow, Edwin G.	Arch.	200-C Brooks	343	3125 Darien Drive	TE 3
*Tiddy, Mildred	Ag. Ext.	220-A Patterson	306	4109 Western Blvd.	TE 2
Tiddy, Sarah M.	Infirmary	Clark	TE 2-7615	405½ Brooks Ave.	TE 4
*Tilley, Bruce Nichols	Math.	216 Tompkins	228	10 A Montgomery St.	
Tillman, Margaret L.	Col. Ext. Div.	124 1911 Bldg.	483	635 A Daniels St.	TE 4
Tinsley, Mary Jean	Grad. School.	145 Gardner	429	202 Grove Land Ave.	TE 2
*Tisdale, Samuel L.	Soils	230 Williams	345	702 Daniels St.	TE
*Todd, Donna	Poultry	109 Scott	366	2100 Milburn Rd.	TE 3
*Todd, Furney A.	Ag. Ext.	13 Gardner	336	Rt. 1, Wendell	FO 5
*Tolar, Robert A.	Military	140 Coliseum	233	1711 Scales St.	TE 4
*Tolbert, Elias Lake	Occ. Inf. & Guid.	223 1911 Bldg.	478	2819 Barmettler	TE 4
Tolley, George S.	Ag. Econ.	215-C Patterson	308	902 Lake Boone Trail	TE 4
*Tomlin, Wilbur H.	Chem. Eng.	7 Riddick	403	Box 702, Cary, N. C.	HO 7
*Tompkins, E. H.	Eng. Res.	233 Riddick	436	203 Alumni Bldg.	
*Toussaint, W. D.	Ag. Econ.	215-A Patterson	308	Blue Ridge Rd.	TE 4
*Tove, Samuel B.	An. Ind.	317 Polk	241	2133 Buckingham Rd.	TE 3
Tripp, Benjamin Riley	Elec. Eng.	433 Daniels	395	207 Fourth Dorm.	TE 2
Trollinger, Ida E.	Infirmary	Clark	TE 2-7615	18 Horne St.	TE 2
*Troxler, Robert Tinnen	Ind. Arts	106 Tompkins	258	2812 Mayview Rd.	TE 3
*Tucker, Robert Whitt, Jr.	Elec. Eng.	433 Daniels	395	929 St. Mary's St.	TE 4
*Tucker, Ruth H.	Ag. Econ.	216 Patterson	308	304 Horne Street	
*Tucker, William Lee	An. Ind.	106 Polk	268	109 N. Boylan Ave.	TE 4
*Tulloch, Dorothy T.	Athletics	100 Coliseum	TE 2-2407	615 Harding St.	TE 4
*Tunstall, Shelton	Exp. Stat.	228 1911 Bldg.	313&335	1014 Norris St.	TE 3
Turnage, Lloyd E., Jr.	Visual Aids	7 Ricks	330	633 Daniels St., Apt. D	TE 3
Turner, Anne L.	Order	113 Library	344	903 West Johnson St.	TE 2
*Turner, Bessie B.	Tel. Exch.	117 Winston	0	3601 Burt Dr.	TE 3
*Turner, Clarence A.	Physics	101 Daniels	353	410 Columbia Dr.	TE 4
*Turner, Edward B.	Military	142 Coliseum	233	Fairway Dr., Rt. 3	TE 4
*Turner, Huldah	English	15 Winston	325	Edwards Mill Rd.	TE 3
*Turner, Mary Vann M.	Ag. Exp.	104 Patterson	471	102 Horne St., Apt. 9	TE 4
Turner, Vance R.	Field Crops	488 Williams	300	Rt. 1, Raleigh, N. C.	
*Turner, W. L.	Ag. Ext.	220-D Patterson	306	2607 Grant St.	TE 4
*Tussey, W. Glenn	Ag. Ext.	220-B Patterson	306	341 Wilmot Drive	TE 4
Tyson, Ruthe	Textiles	24 Textile	288	10 Enterprise St.	TE 4
Umstead, C. P.	Plant Path.	112 Gardner	380	1020 Faircloth Ext.	TE 2
*Underwood, Frances H.	Eng. Res.	124 Riddick	423&248	619 N. Blount St.	
*Underwood, Newton	Physics	403 Daniels	353	1322 Duplin Rd.	TE 3
*Underwood, Von Harvey	Horticulture	288 Kilgore	318	502 Day Ave., Cary	HO 7
*Uyanik, Mehmet E.	Civil Eng.	336 C. E. Bldg.	391	1616 Lorraine Rd.	TE 3
*Uzle, Ruby P.	Ag. Ext.	220-G Patterson	291	2512 Vanderbilt Ave.	TE 4
*Van Bavel, C. H. M.	Soils	324 Williams	209	207 West Drewry Lane	TE 4
*Van der Reyden, Dirk	Exp. Stat.	12 Patterson	386&387	State Hospital	TE 2-7581 Ex
*Van Schilfgaarde, Jan	Ag. Eng.	303 Mangum	461	Apt. F, Glenwood Gardens	TE 4
*Vann, Hugh G.	Horticulture	Old Greenhouse	240	3207 Arthur Ct.	TE 2
*Vann, J. Graves	Business Office	105 Holladay	295	1606 Scales St.	TE 2
*Vaughan, Linwood H.	Textiles	325 Textile	413	Franklin, N. C.	
Venturella, Sam	Social Studies	209 Winston	200	1204 Duplin Rd.	TE 2
*Verlinden, Frances J.	Exp. Stat.	5 Patterson	386&387	106 Byron Place	TE 4
		If no answer, 313or335			
*Waddell, DeLavalette R.	Ag. Ext.	117 Ricks	255	814 Braden	TE 3
Wade, Virginia	Entomology	326 Gardner	409	2609 Vanderbilt	TE 2
*Wagoner, Fred H.	Ag. Ext.	208 Ricks	410	1318 Lutz Ave.	TE 4
*Walker, David R.	Horticulture	234 Kilgore	318	2604 Clark Ave.	TE 4
*Walker, Joseph, Jr.	Textiles	142 Textile	416	322 W. Gilbert Ave.	TE 2
*Wall, T. D.	Dining Hall	Leazar	TE 3-4825-6	711 Penn Road	TE 2

* Married

Name	Dept.	Office	Ext.	Address	Ph
*Walser, Richard	English	7-9 Winston	325	Arrow Dr., Rt. 6	TE 3-
*Waltner, Arthur W.	Physics	Reactor Bldg.	424	1612 Lorraine Rd.	TE 3-
*Waltner, Nellie L.	Library	Library	372	1612 Lorraine Rd.	TE 3-
*Walton, Jay R.	Civil Eng.	234 C. E. Bldg.	303	3019 Leonard Ave.	TE 4-
*Walunjkar, W. G.	Soils	457 Williams	334	109 Oberlin Rd.	TE 4-
*Ward, Elizabeth H.	Ag. Ext.	201 Ricks	243	1905 Park Drive	TE 2-
*Warren, Estelle B.	Alumni Office	Alumni Bldg.	TE 3-1010 & 252	710 Glenwood Ave.	TE 3-
*Warren, Fred G.	An. Ind.	213 Polk	319	1339 Brooks Ave.	TE 4-
*Warren, George M.	An. Ind.	A. H. Farm	TE 2-0354	Rt. 1, Cary, N. C.	TE 2-
*Warren, Majorie Lane	Exp. Stat.	7 Patterson	386&387	Apt. 34-C, Vetville	TE 2-
*Warrick, Woodley C.	Ag. Ext.	315 Ricks	274&389	Rt. 2, Clayton,	Clayton 3-
*Washburn, Joe Dan	Field Crops	192 Williams	324	1329 Marlborough Rd.	TE 4-
*Walters, William D.	Ag. Ext.	13 Ricks	254	1149 Brighton Rd.	TE 4-
*Watkins, Fred N.	Textiles	233 Textile	414	Rt. 1, Neuse, N. C.	TE 4-
*Watkins, Patsy H.	Foundations	"A" Holladay	322	2203 Noble Road	TE 3-
*Watson, Mrs. Emma L.	Bus. Off.	4 Holladay	441	Cary, N. C.	HO 4-
*Watson, George C.	Math.	224 Tompkins	228	2820 Van Dyke Ave.	TE 3-
*Watts, N. B.	Student Affairs	207 Holladay	434	Rt. 1, Cary, N. C.	TE 3-
*Weatherly, Evelyn M.	Ag. Econ.	201-A Patterson	355	2707½ Vanderbilt Ave.	
*Weathers, Betty M.	Soils	306-A Williams	209	Fairway Acres, Rt. 3	TE 3-
*Weathers, Clyde R.	Ag. Ext.	220-G Patterson	306	Rt. 1, Cary, N. C.	HO 7-
*Weaver, David S.	Ag. Ext.	104 Ricks	213	520 Gardner St.	TE 2-
*Weaver, Jean B.	Student Affairs	206 Holladay	460	414 Morrison Ave.	TE 3-
*Weaver, John W., Jr.	Ag. Eng.	Ag. Engr. Bldg.	484	414 Morrison Ave.	TE 3-
*Webb, Mrs. Cornelia B.	Dean of Fac.	110 Holladay	466	2611 Hazelwood Drive	TE 2-
*Weed, Sterling B.	Soils	305 Williams	209	2715 Dorchester Ct.	TE 4-
*Welch, Charles D.	Soils	230 Williams	345	714 Runnymede Rd.	TE 3-
*Weldon, Bettye Brooks	Col. Ext.	124 1911 Bldg.	260or238	2610 Clark	TE 2-
*Wells, J. C.	Ag. Ext.	12 Gardner	336	229 Buck Jones Rd	TE 3-
*Wells, Jean Sullender	Physics	32 Reactor Bldg.	393	707-D Daniels St.	TE 4-
*Wessling, Wolfgang H.	Genetics	351 Gardner	385	1537 Dellwood Dr.	TE 2-
*West, Madelyn D.	Exp. Stat.	5 Patterson	386	2714 Gordan St.	TE 2-
*Westmoreland, William G.	Ag. Ext.	284 Williams	294	713 Yarmouth Rd.	TE 4-
*Weybrew, Joseph A.	Chemistry	407 Williams	272	805 W. Pineland Dr.	TE 3-
*Wheeler, Willie W.	Ag. Eng.	Ag. Engr. Bldg.	405	315 E. Jones St.	TE 2-
*Whelless, M. H.	S. S. S.	YMCA	TE 2-3674&225	1501 Lutz Ave.	TE 2-
*Whetstone, Gloria K.	Library	12 Library	344	202 Groveland Ave.	TE 4-
*Whichard, Lindsay R.	English	7-9 Winston	325	2316½ Hillsboro St.	TE 2-
*Whichard, William A.	Military	138 Coliseum	233	2312 Clark Ave.	TE 3-
*Whisnant, Mamie N.	Ag. Ext.	305 Ricks	285	E-5 Raleigh Apt.	TE 2-
*White, Barbara Screffler	Social	C. U.	378	3126 Sussex Road	TE 3-
*White, Ellen B.	Ag. Ext.	101 Ricks	244	415 East Edenton Street	
*White, James H.	Ag. Ext.	120 Ricks	279	3109 Hillsboro St.	TE 4-
*White, Raymond Cyrus	Chemistry	115 Withers	297	1509 Lutz Ave.	TE 3-
*Whitehead, L. C.	Wildlife Service	358-360 Gardner	261	2105 White Oak Rd.	TE 2-
*Whitener, Elizabeth M.	Eng. Res.	139 Riddick	425	21-B Vetville	TE 3-
*Whitefield, Hazel B.	Military	154 Coliseum	233	3200 Hillsboro St.	TE 3-
*Whitefield, John K.	Mech. Eng.	315 Broughton	448	2334 McMullen Circle	TE 3-
*Whiteford, L. A.	Botany	265 Gardner	267	3217 Oak Grove Circle	TE 3-
*Whitt, Nancy W.	Business Office	"B" Holladay	298	108 St. Mary's St., Garner, N. C.	N. C.
*Whittier, B. L.	Textiles	103 Textile	289	2718 Everett Ave.	EM 2-
*Whittington, Evelyn P.	Textiles	24 Textile	288	Rt. 4, Raleigh	TE 2-
*Whittington, Willie M.	Air Science	145 Coliseum	314	814 Demerius St., Durham, N. C.	TE 2-
*Whyburn, W. M.	Acting Provost	218 Library	468		8-
*Wiber, Carolyn T.	An. Ind.	304 Polk	241	L-2 Country Club Homes	TE 4-

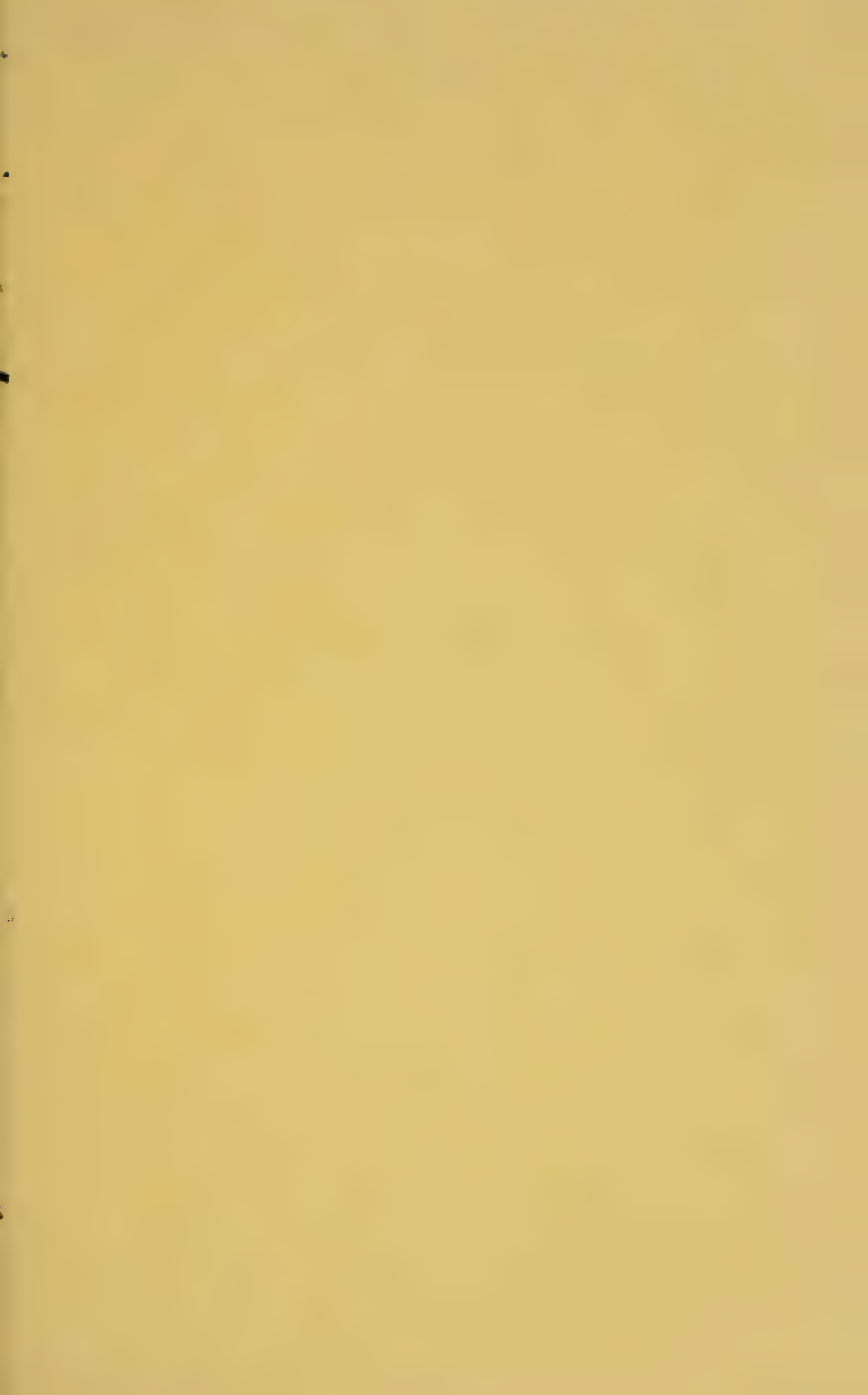
* Married

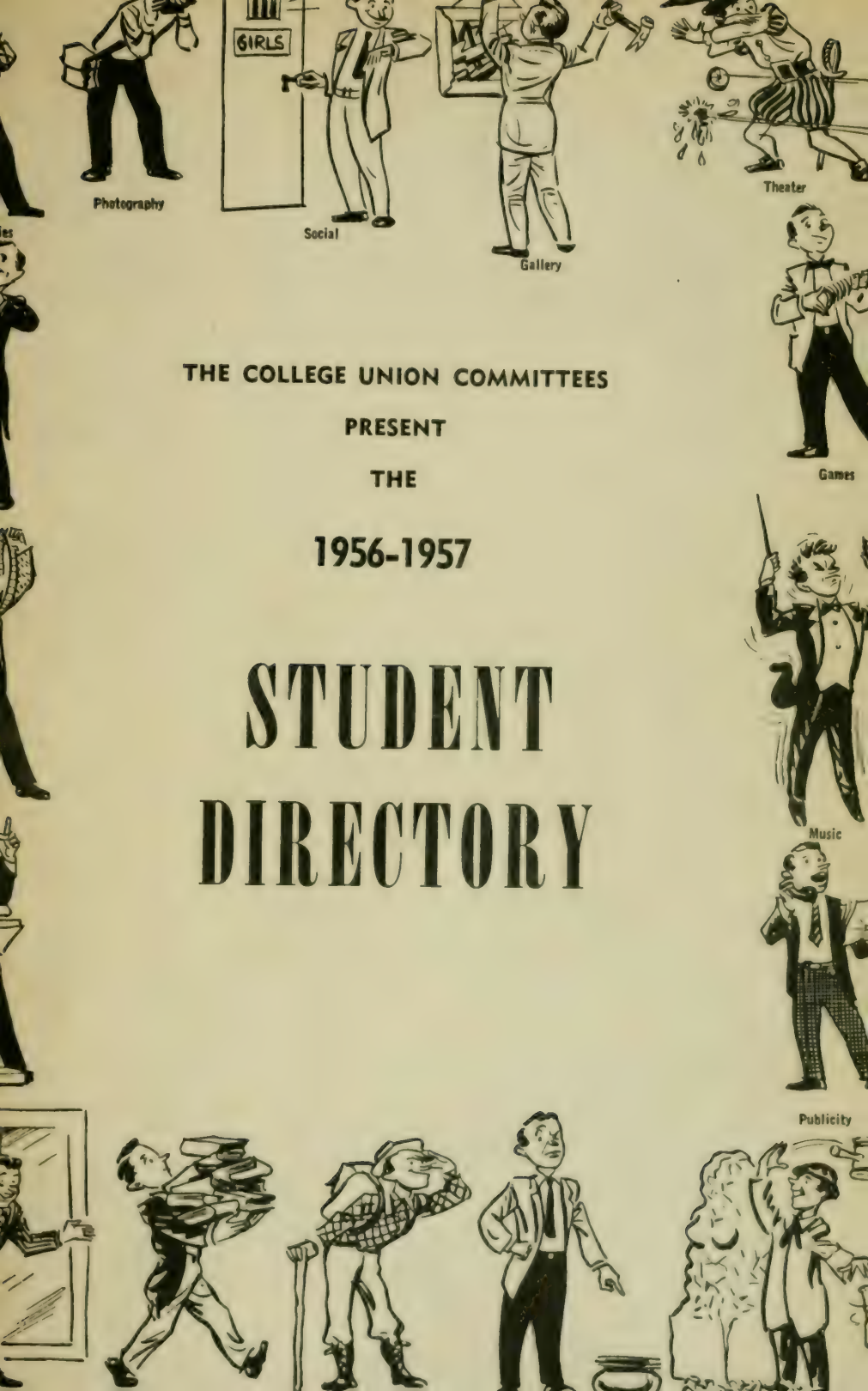
Name	Dept.	Office	Ext.	Address	F
*Wicker, Marie P.	Engr.	232 Riddick	404	56 Oakwood Dr., Chapel Hill	8
*Wiggs, Joseph T.	Horticulture	New Greenhouse	418	33 Dixie Drive	TE 3
*Wilbur, Robert L.	Botany	249 Gardner	267	120 Cox St.	TE 3
*Wiles, Rachel D.	Textiles	B-48 Textile	416	3109 Hillsboro St.	TE 3
*Wilkerson, Charles Wm.	Stu. Aff.	206 Holladay	460	2662 Oberlin Rd.	TE 4
*Wilkinson, Erma	Indus. Exp.	Old Ceramic Bldg.	464	22-G, Veville	TE 3
*Wilkinson, Howard M.	Ag. Ext.	303 Ricks	457	520 Grove Ave.	TE 3
*Willard, Rudolph	Indus. Eng.	339 Riddick	428	Q-6 Raleigh Apts.	TE 2
*Williams, Carlos F.	Horticulture	232 Kilgore	318	1912 Lewis Circle	TE 2
Williams, Charles W.	Ag. Ext.	220-F Patterson	306	302 Clay St., Cary	HO 7
*Williams, Elsie B.	Seed Prod. Assoc.	124 Williams	TE 2-1573	2817 Mayview Rd.	TE 4
*Williams, Gertrude H.	Ag. Ext.	451 Williams	329	315 Oakwood Ave.	TE 3
*Williams, H. Page	Math.	223 Tompkins	228	1015 Brooks Ave.	TE 2
*Williams, J. Caswell, Jr.	Field Crops	488 Williams	300	907 Wade Ave., Garner	EM 2
*Williams, Katherine W.	Chemistry	217 Withers	339	Apt. 37-G, Veville	TE 2
Williams, Porter	English	217-219 Winston	325	222 Hawthorn Rd.	TE 2
*Williamson, James Claude, Jr.	Ag. Econ.	205-B Patterson	358	2210 Wheeler Rd.	TE 2
*Willis, David C.	Chemistry	103 Withers	266	Rt. 1, Cary	TE 4
Wilson, Jane H.	Student Affairs	206 Holladay	456	2204 St. Mary's St.	TE 2
Wilson, S. Virginia	Ag. Ext.	213 Ricks	354	1119 Harvey Street	TE 2
*Wilson, T. Virgil	Ag. Eng.	302 Mangum	342	1310 Westfield Ave.	TE 4
*Winecoff, Gilbert E.	Air Science	145 Coliseum	314	2301 Bernard St.	TE 3
*Wingate, Clarence A., Jr.	Mech. Eng.	17 Broughton	246	1808 Arlington St.	
*Wingate, Jeannette	Purchasing	200 Morris	230	1808 Arlington St.	
*Winkler, Edwin W.	Elec. Eng.	223 Daniels	430	509 Gardner St.	TE 2
*Winn, Betty Jean	An. Ind.	111 Polk	305	Apt. 37-H, Veville	TE 2
Winstead, Nash N.	Plant Path.	208 Gardner	310	2705 Dorchester Ct.	TE 4
Winstead, Vera	Horticulture	214 Kilgore	275	2710 1/2 Everett Avenue	TE 2
*Winston, Sanford	Soc. & Anthrop.	202 Peele	374	1712 Piccadilly Lane	TE 2
Winton, L. S.	Math.	223 Tompkins	228	3007 Mayview Rd.	TE 3
Wise, George H.	An. Ind.	304 Polk	241	229 Woodburn Road	TE 3
*Wise, Sarah Vann	An. Ind.	114 Polk	305	2331 Kennington Rd.	TE 4
*Witmer, Samuel B.	Textiles	102 Textile	289	508 Dixie Trail	TE 3
*Woltz, W. G.	Soils	426 Williams	334	Oxford, N. C.	
Woo, Kuo Chuan (Henry)	Textiles	B-53 Textile	416	Cameron Village Apt.	TE 4
*Wood, T. W.	Economics	106 Peele	333	2822 Bedford Ave.	TE 2
Woodall, Mrs. Clyde H.	Stu. Aff.	11 Holladay	219&215	G-2 Countrv Club Home	TE 2
*Woodbury, Arthur J.	Textiles	142 Textile	416	1501 Duplin Rd.	TE 4
Woodell, Stanley R. J.	Genetics	344 Gardner	385	315 Forest Road	TE 2
*Woodhouse, W. W., Jr.	Soils	188-A Williams	324	1511 Dixie Trail	TE 2
Woodson, Pearl T.	Dining Hall	Leazar	TE 3-4825	20 Maiden Lane	TE 2
*Woolard, Roselyn B.	Horticulture	21 Kilgore	275&455	106 Ashe Ave.	TE 4
*Wooldridge, Oscar B., Jr.	Relig. Aff.	YMCA	TE 2-7184	3105 Churchill Rd.	TE 4
*Worley, Billie A.	Soils	328 Williams	209	400 Parnell St.	
Wright, Elizabeth Anne	Exp. Stat.	3 Patterson	387	1509 1/2 Hillsboro	TE 4
*Wright, John D.	Business Office	"B" Holladay	298	2400 Greenway Terrace	TE 3
Wubben, Lorraine (Lory)	YMCA	Y.M.C.A.	TE 2-7184	1709 Hillsboro	TE 2
*Wyatt, Candace L.	Ag. Ext.	23 Ricks	254	2702 Van Dyke Ave.	TE 2
*Wylie, Donald P.	Math.	209 Tompkins	226	2602 Augusta Dr., Durham	7
Wynne, R. Baker	English	117 Winston	325	1411 Jackson St.	TE 3
*Yachan, Emilio	Textiles	B-53 Textile	416	2304 Lyon St.	TE 3
*Yager, Frances H.	Textiles	B-53 Textile	416	26-E Veville	TE 2
Yates, Lois	College Union	C. U.	TE 4-7318	1705 Wake St.	TE 3
Young, Alice Mae	College Union	C. U.	378	1914 Glenwood Ave.	TE 2
*Young, Charles Wesley	An. Ind.	106 Polk	268	609 St. Mary's St., Garner	

* Married

<i>Name</i>	<i>Dept.</i>	<i>Office</i>	<i>Ext.</i>	<i>Address</i>	<i>P.</i>
Young, James N.	Rural Sociology	338-1911 Bldg.	312		
*Young, Janet Hirschmann	Admissions	14 Holladay	205	Box 24, Knightdale	TE 3
*Young, Joseph Earl	An. Ind.	209 Polk	319	Box 24, Knightdale	TE 3
Young, Malpheus F.	Field Crops	112 Williams	222	Rt. 4, Raleigh	1
Yu, Pao-Lo	Exp. Stat.	226 1911 Bldg.	313&335	203 Groveland Ave.	TE 2
Zimmerman, Robert Lee	English	17-19 Winston	325	3413 Churchill	TE 2
Zorbalas, G. Z.	Elec. Eng.	431 Daniels	395		
*Zschau, Helen	Library	201 Brooks	361	2125 Woodland Ave.	TE 2
*Zuraw, Edward A.	An. Ind.	209 Polk	319	2702 Mayview Road	

* Married





THE COLLEGE UNION COMMITTEES

PRESENT

THE

1956-1957

STUDENT DIRECTORY

COLLEGE UNION OFFICERS

President	Jim Smathers
Vice Pres.	Bob Strother
Sec.	Dott Morton

COLLEGE UNION CHAIRMEN

Activities	Jim May
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The Activities Committee is a coordinating group. This committee polls campus opinions related to Union programming, plans the College Union Chairmen's Retreat, Committeemen's Orientations, Lost and Found Sales, and emphasizes good public relations and campus harmony.

Dance	Erle Mangum
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The Dance Committee plans and executes most of the Union-sponsored dances. They offer lessons in social and square dancing, provide informal record dances every weekend, and occasionally have large-band dances.

Film	Chreston Holoman
------------	------------------

If you have worked as projectionist, you will have an opportunity to continue this work on the Film Committee, since students do all the projectional work. The Film Committee selects the films and presents free movies to the students each weekend.

Forum	Murray Penny
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The Forum Committee brings authoritative speakers to the campus for lectures and discussions on subjects of both general and technical interest. These lectures are on such subjects as politics, sports, adventure and exploration, and even atomic energy.

Games	Paul Pickenheim
-------------	-----------------

The purpose of the Games Committee is to provide leisure-time recreation for students. This is accomplished by sponsoring billiard, checker, chess, table tennis and bridge tournaments, and by offering beginners classes in bridge. This committee also frequently shows sports movies and sponsors special games exhibitions. The Games Committee formulates the rules and policies for the billiard and table tennis room in the College Union Building.

Hospitality	Archie Copela
-------------------	---------------

The coeds have banded together to form the Hospitality Committee. These girls act as hostesses for the Union events, thereby adding something to the event as well as giving themselves a feeling of unity with campus happenings. The committee holds informal coffee hours where students can meet the faculty and staff, sponsors the annual College Union Banquet, and the Christmas decoration party.

Library	Bob Daws
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The Library Committee makes a wide selection of magazines, books, and newspapers available at the Library Desk. This committee's primary function is to inform students about the field of literature and authors through informal book talks.

PhotographyWess Staats

The Photography Committee is the governing body of the darkroom and the photography lab. The chief purpose is to teach skill in the use of cameras and to interest newcomers in photography. They sponsor student photography competitions and the Camera Club.

OutingBob Abernathy

The purpose of the Outing Committee is to provide fun and relaxation for the students through outdoor activities such as picnics, hikes, overnight camping trips, and short movies on nature and other outdoor subjects.

PublicityEarl Holoman

The Publicity Committee has the job of promoting the major events that are sponsored by the College Union. They endeavor to use all means of promotion. Another one of their larger jobs is that of editing the Master Calendar of State College activities.

SocialGeorge Colton

It is the responsibility of the Social Committee to secure girls from the girls' schools in Raleigh for weekly platter parties and dance lessons. They also sponsor the "Meet The Artist" coffee hours after large programs which are sponsored by the Union. The Social Committee coordinates large College Union programs which overlap committee responsibility.

TheaterGeorge Thomason

The Theater Committee sponsors a number of professional productions and theatrical events from other colleges. This committee encourages student talent through talent shows, One-Act Play Nights, and the Drama Club which produces one-act and full-length plays.

MusicHarry England

The Music Committee sponsors a variety of local and professional musical events from classical to jazz. The Music Lounge is operated by the committee and provides a place for the student to relax and listen to his favorite musical selections.

HouseChuck Abernathy

It is the House Committee's duty to determine the rules and policies which are carried out in the College Union Building and to welcome student ideas and suggestions. This committee also acts as host to visitors and furnishes guides for persons who wish to tour the building and campus.

GalleryDave Phelps

The Gallery Committee plans art exhibits as well as many other interesting displays for the College Union Gallery area. They display art from other colleges, professional exhibits including both modern and old masters, technical exhibits and sponsor local art and competitions.

HobbiesJack Steele

The Hobby Committee sponsors classes, demonstrations, and lectures in crafts, woodwork, ceramics, leather work, and many other hobbies. They make policies for the work shop in the College Union Building which will be available for student use. A sub-club of the Hobby Committee is the Model Airplane Club.

1956

SEPTEMBER							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1		1	2	3	4	5	6
2	3	4	5	6	7	8	7	8	9	10	11	12	13
9	10	11	12	13	14	15	14	15	16	17	18	19	20
16	17	18	19	20	21	22	21	22	23	24	25	26	27
23	24	25	26	27	28	29	28	29	30	31			
30													
NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2							1
4	5	6	7	8	9	10	2	3	4	5	6	7	8
11	12	13	14	15	16	17	9	10	11	12	13	14	15
18	19	20	21	22	23	24	16	17	18	19	20	21	22
25	26	27	28	29	30		23	24	25	26	27	28	29
							30	31					

1957

JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28		
MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1		1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28	29	30				
31													
MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
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5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28	29
							30						
JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	31

North Carolina State College

1956-1957

STUDENT DIRECTORY

This directory was compiled prior to September 16, by the:

NORTH CAROLINA STATE



COLLEGE UNION

Corrections since that date are not included in this directory.

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Abee, Dallas Carroll, Jr.	JR	ARC	2512 Clark Ave.	Te-24843	415 10th Ave. NW Hickory, NC
Abee, David	FR	CHE	Turlington		Box 523, Rutherford College, NC
Abernethy, Francis Gerald	JR	EE	116 Hawthorne Rd.	Te-28406	116 Hawthorne Rd, Raleigh, NC
Abernethy, Harry Charles	JR	CE	902 W. South St.	Te-21722	1st. Ave. Hickory, NC
Abernethy, Robert Lloyd	SO	CE	202 Turlington		Box 630, Belmont, NC
Abernethy, Timothy Glenn	SO	PPT	1715 Park Dr.	Te-20885	212 W. 5th. Gastonia, NC
Abernethy, William Carl	FR	ARC	Tucker		Rt # 2, Huntersville, NC
*Abbott, Omega Clark	SI	AED	Apt 33H, Vetville	Te-26311	984 Maple St. Henderson, NC
Abeywickrama, Dayananda	FR	AGE	58 Owen Bldg.	Te-29142	Guruaula Estate, Morawaca, Cylon
Absher, Jerry Mack	SR	PMW	218 Turlington	Te-29297	702 Jones St. N. Wilkesboro, NC
Ackerman, Charles Thomas	JR	AEC	Turlington		Rt # 1, Mowen, NC
Acra, Robert, N.M.N.	FR	TX	Turlington	Te-29297	Port-au-Prince, Haiti
*Adams, David Arthur	JR	WOM	P.O. Box 5215		Bay Village, Ohio
*Adams, David Delmas	FR	ARC	2724 Dorchester Ct.	Te-40824	611 Piedmont Way, Burlington, NC
Adams, Dewey Allen			Box 651 Kenly, NC		Rt 1, Bunnlevel, NC
*Adams, Gordon Leslie	SO	CEC	3444 Hillsboro		D-1, Kinston Apts. Kinston, NC
Adams, Joe Taylor			312 Woodland Ave. WF		978 Laing St. St. Albans, W. VA.
Adams, Lawrence Dan	FR	EE	Tucker		Rt # 1, Cleveland, NC
Adams, Leo Francis	SO	EE	6 Fernndell Lane	Te-22265	Rt#2, East Bend, NC
Adams, Maynard Francis	SO	EV			204 Faircloth St. Raleigh, NC
Adams, Myron Gilbert Jr.	JR	WOM	P.O. Box 10592	Te-35068	Rt#8, Winston-Salem, NC
*Adams, Richard Wesley	FR	IE	Tucker	Te-29437	1015 Coddington Pl. Charlotte, NC
Adams, Robert Douglass	FR	IE	Owens	Te-49903	1518 E. 25th St. Winston-Salem, NC
Adams, Robert Thompson	SO	EE	706 Hillsboro	Te-22265	Rt#2, East Bend, NC
Adams, Sam Edward	FR	EE	6 Fernndell Lane		Rt#3, Four Oaks, NC
Adams, Stanford Morgan			2226 Hillsboro		1627 New Jersey Ave. New Castle, Del.
Adams, Wm. Wm.	SO	CE	208 Barry		RT#5 Oxford, NC
Adcock, James Astor, Jr.		ME	255 Tucker		The Avenue, Zerk, Jordan
Adel-Gari, Aref B.	JR	EE			503 W. 2nd. Cherryville, NC
Aderholdt, Charles Lamar	FR	EE	61 Owen		Leaksville, NC
Adkins, Charles Dewey	SR	CE	132 Owen		RT#2, Hickory, NC
*Adkins, Dwight Steele	SO	ME	2712 Bedford Ave.	Te-35209	2123 Milburnie Rd. Raleigh, NC
Adkins, Forest Wayne, Jr.	FR	CE		Te-47890	2123 Milburnie Rd. Raleigh, NC
*Adkins, George Wm.	SO	CHE		Te-29860	2373 Walker Ave. Winston-Salem, NC
Agnos, John Nicholas	SO	EE	#6 Becton	Te-29464	2604 Beechwood, Greensboro, NC
Albaugh, John Charles	FR	CE	301 Owen		Minas De Matahambre, Pinar Del Rio,
Alber, Derek	FR	EE	63 Tucker		Minas De Matahambre, Pinar Del Rio,
Alber, Glenn	SO	EE	Tucker		Minas De Matahambre, Pinar Del Rio,
Alber, Knud Dennis	SO	CE	Tucker		822 Cranbrook Rd. Raleigh, NC
Alcorn, Francis Marion	JR	NE	2702 Hillsboro	Te-21835	Samarra, Iraq
*Al-Dumery, Abdulla Aziz T.	JA	AGE		Te-20230	853 Vanhook Ave. Winston-Salem, NC
Aldridge, John Arthur	FR	EE	103 Bagwell Hall	Te-29413	RT#2, Pink Hill, NC
Aldridge, Michael Delano	JR	AGE	219 Bagwell		1209 E. Cedar, Olathe, Kansas
*Alexander, Charles Wm.	JR	AG	Bagwell Dorm. Apts.	Te-47436	Turnpike, Brevard, NC
*Alexander, Jack Lewis	JR	PPT	Apt. 8, Dixie Trail		404 Hillcrest Ave. Charlotte, NC
Alexander, James Monroe	JR	MEA	136 Turlington		304 N. 21st. Wilmington, NC
Alexander, Kenneth Baird	SR	MEA	114 Matauga		1401 Carolyn Dr. Charlotte, NC
Alexander, Lawrence Eric	SO	NE	230 Turlington	Te-29297	2 Briarbridge Valley, Chapel Hill, NC
Alexander, Michael VanC.	FR	ARC	Bagwell	Te-29131	Mt. Gilead, NC
Alexander, Wilson McK.	JR	FCM	122 Ashe Ave.		3814 Burt Dr. Raleigh, NC
Alford, Michael Rives	FR	TX			301 N. 21st. Wilmington, NC
*Alford, Wm. Ernest	SR	ME	1024 Nichols Dr.	Te-36044	Hilla, Iraq
Al-Habib, Yamil M.	SR	ENT			Haditha, Iraq
Al-Hadithy, Abdul R.O.	SR	WT	P.O. Box 5341		Dist. Lyallpur, W. Pakistan
Ali, Asghar			2402 Hillsboro		Dist. Lyallpur, W. Pakistan
Ali, Rahmat	JR	TC	130 Woodburn Rd.		Mosul, Iraq
Al-Ibour, Hazim Ahmed		AG	P.O. Box 5324		Hai, Iraq
Al-Jabiry, Abdul, A.H.	JR	ENT	Told		Tikrit, Iraq
Al-Jaffasi, Abdul, R.	SR	FCM	P.O. Box 5664	Te-48377	8401 4th. North Bergen, NJ.
Allan, Albert Wm.	JR	MTE	2357 McMullen Circle	Te-29334	N. Green St. Farmville, NC
Allen, Carroll Glenwood	SO	EE	212 Becton		RT#4, Rosboro, NC
Allen, Cecil Oakley	FR	JA	201 Owen		RT#1, Tobaccoville, NC
Allen, Donald P.	FR	AED	Turlington		125 S. Bloodworth, Raleigh, NC
Allen, Eldon Perry			125 S. Bloodworth		206 E. 17th. Lumberton, NC
Allen, George C. Jr.	SO	IE	219 Becton	Te-29334	1009 Summit, Reidsville, NC
Allen, George Lewis Jr.	FR	EE	335 Owen	Te-29464	200 Rhodes Ave. New Orleans, LA
Allen, Graham Lester Jr.	JR	AED	2718 Clark Ave.	Te-34545	245 W. Wade, Wadesboro, NC
Allen, James Hardin	JR	CE	203 Groveland		2306 Bernard St. Raleigh, NC
*Allen, Kenneth J.	FR	CE			RT#1, Box 549, Roanoke Rapids, NC
Allen, Leonard Leon	FR	AG	Becton	Te-29372	Pantego, NC
Allen, Reading Howard	FR	AJR	Tucker	Te-29387	Box 306, Forest City, NC
Allen, Robert S.	JR	FCM	128 Turlington	Te-49279	1806 Birmingham, Durham, NC
Allen, Sidney Herman	JA	E	204 Becton	Te-29334	RT#1, Farmville, NC
Allen, Teddy Gray	JR	AED	Raleigh Apts.	Te-24343	47 Hillview Ct. Lewiston, NY
Allen, Thomas Edward	JR	ARC	20 Logan Ct.	Te-26219	160 Ave. G. SE Winter Haven Fla.
Allen, William Donald	FR	ME	59 Owen		P.O. Box 454 King, NC
Alley, Frank McFarland Jr.	SO	EE	106 Bagwell		RT#1, Box 241, Washington, NC
Alligood, Gilbert Ray	FR	CE	223 Tucker	Te-29312	434 Manor Ridge Rd. Pelham, NY
Allin, Wm. Gordon	SR	TX	1620 Hillsboro	Te-29531	414 Mulberry Ave. Kannapolis, NC
Allman, James Thurman	FR	ME	Syme		201A S. Rudisill Ave. Cherryville, NC
Allran, Charles Forest	FR	EE	Turlington	Te-49279	RT#6, Box 519, Mt. Airy, NC
Allred, Jesse F.	JR	CE	Alexander	Te-49746	2700C, Bedford Ave. Raleigh, NC
Allred, Robert D.	JR	CE			207 Cherry Lane, Teaneck, NJ
Allsbrook, Robert Worth	JR	CHE	A Berry		RT#3, Albemarle, NC
Almond, Wm. Wayne	FR	ME	117 Matauga		RT#3, Albemarle, NC
Almond, James Alton	JR	EE	Tucker	Te-29388	RT#4, Albemarle, NC
Almond, Larry Douglas	JR	CE	Berry		Box 681, Gastonia, NC
Aldridge, Robert Carl	JR	IE	2817 Wade Ave.	Te-22288	Box 5781, Raleigh, NC
Alstamaani, Michael S.	JR	PPT	Box 5781		

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Alston, John Davis	FR	MEA	121 Syme		REF#2, Louisburg, NC
Al-Talibi, A. Amir A.H.	SR	AI	P.O. Box 5758		Kadish St. Omara, Iraq
*Alter, Alan B.	SR	NE		Te-24383	2700 Cartier Dr. Raleigh, NC
Alvarez, Raul Ediarido	SR	TE	205 Gold		Sarmiento, Buenos-Aires, Argentina
Al-Waily, Jafar Mehdi			P.O. Box 5784		Munania, 15 Iraq
Aly, Fathy Ahmed			P.O. Box 5784		P.O. Box 5784, Raleigh, NC
Aman Lemuel G. Jr.	FR	AED	Turlington		RPD#2, Jacksonville, NC
Ambler, Arthur, Chase Jr.	JR	PPT		Te-44245	#5 Edgemont Rd. Asheville, NC
*Amin, Raman D.			P.O. Box 697 Cary		Baroda, Bombay, India
Ammons, Justus Murray	JR	AG	2100 Hillsboro	Te-46094	RT#1, Mars Hill, NC
Amos, Ray Wm.	FR	EE	337 Tucker		RT#1, Valdes, NC
Anders, Bryan					Box 181, Burnsville, NC
Anderson, Calvin C.	FR	E	Syme		RT#2, Tarboro, NC
Anderson, Carl W. Jr.	SO	ME	221 Becton	Te-29334	707 Main, Ramseur, NC
Anderson, Donald Henry	JR	ME	Apt. 50, Vetteville		Winston-Salem, NC
Anderson, Donald Wayne	JR	EE	308 Horne St.	Te-27050	P.O. 131, Tarboro, NC
Anderson, Ernest A.Jr.	JR	EE	1710 Hillsboro	Te-42001	RT#2, Box 52, Wilmington, NC
Anderson, Gerald Van Jr.	FR	CE	316 Tucker	Te-49739	RR#3, Owensboro, Ky.
Anderson, Harold Halcum	JR	ZO	Owen	Te-29440	RT#1, Rosehill, NC
Anderson, James R.	SR	TX	120 Hillcrest		300 Walker, High Point, NC
Anderson, John R.	SO	CE	Owen	Te-29437	RT#1 Guilford College, NC
Anderson, Joseph L.	FR	AG	308 Horne St.	Te-27050	RT#3, Tarboro, NC
Anderson, Kenneth Calvin	FR	ME	Turlington	Te-49279	702 E. Lake Dr. Greensboro, NC
Anderson, Thomas Oliver	SR	GRE	Lambda Chi Alpha	Te-23429	1715 Maryland, Durham, NC
Anderson, Wilbur Elmo	SR	CEE	Syme		RT#2, Tarboro, NC
Andreaddellis, Andrew G.			307 Watauga		Athens, 7, Greece
Andrew, Charles David	SO	TX	Turlington		1111 English, Greensboro, NC
Andrews, Charles Luther	FR	EE	Tucker		1100 Willard St. Greensboro, NC
Andrews, Charles T.	FR	EE	Tucker	Te-29323	102 Meade Dr. Greensboro, NC
Andrews, Dan Franklin					64 Brevard, Asheville, NC
*Andrews, George H. Jr.	SR	PPT	805 Peace Tree	Te-21804	Pittsboro, NC
Andrews, Norman Leon	SO	DN	Bagwell		Box 395, Robbins, NC
Andrews, Tommy Edward	SR	PC	Alexander		RT#2, Graham, NC
*Andrews, Wm. Parker, Jr.	SR	PPT	1409 Beaver Dam Rd.		Box 36, Flar Rock, NC
Angel, Douglas Hasden	FR	ARC	Tucker	Te-29312	RT#1, Box 146, Kernersville, NC
Anglin, Frank Lee	FR	ME	Tucker		Star Rt. Burnsville, NC
Annes, Gareth Edwin	JR	ARC	202 Welch	Te-29119	RT#1 Box 610, Hudson, NC
*Annas, Jerry Aaron	SO	PM	708 Florence St.	Te-29597	RT#2, Grant Falls, NC
Annas, Wesley E.	SO	AS	Alexander	Te-29257	P.O. Box 4915, Grant Falls, NC
Antoniewics, Peter Roman	SO	SPY	Becton	Te-29334	315 S. Ellis, Salisbury, NC
Anwar, Muhammad S.			Tucker		Lyalour, Pakistan
Apple, Billy Reid	FR	AJ	Becton	Te-29250	RT#1, Gibsonville, NC
Apple, Robert M.	JR	CE	2513 Stafford	Te-20125	RT#1, Box 77, Reidsville, NC
Apple, Vance Alton	FR	ME	Owen	Te-29142	RT#1, Box 288, Gibsonville, NC
Archib, Joseph P. Jr.	FR	ME	Owen		1215 Gary Rd. Kinston, NC
Ardito, Nicholas B.	JR	ALE	Owen	Te-29115	Box 4339, Panama, Panama
Armstrong, Jimmie Gray	JR	ME	Becton	Te-29256	709 Franklin, Rocky Mt., NC
Arrington, James Edward	JR	ME	1214	Te-29263	RT#2, Box 7, Waynesville, NC
Arroyo, Jose Angel	JR	AI	123 Brooks		Box 68, San Juan, Puerto Rico
Arthur, Ernest St. Jr.	SO	CEC	6 Enterprise	Te-29192	414 Westdale, Greensboro, NC
Arthur, James B.	JR	ME	6 Enterprise	Te-24788	414 Westdale, Greensboro, NC
*Arthur, Reuben Bell	SO	GRE		Te-29457	4115 Walker, Greensboro, NC
Ashbill, Clarence M. 3rd.	JR	ME		Te-29457	2407 Stafford, Raleigh, NC
Asbury, Clayton Grant	FR	ME	Bagwell		1105 Grace, Wilmington, NC
*Ashburn, Rex Frank	JR	ME	Tucker		King, N.C.
Ashby, Donald Wayne	JR	ME	Tucker		309 Church, Kannapolis, NC
Asher, Robert D. Jr.	SO	DN		Te-40154	2004 Alexander, Raleigh, NC
*Asher, Wm. Curtis			UK2 Vetteville	Te-37452	1000 Church, Kannapolis, NC
*Ashley, Quincy Ted	JR	HNT	105 Henderson	Te-40131	Warrensville, NC
Atesci, Ahmet			40 Dixie Dr.		Adana, Turkey
Atkins, Harold L.	FR	AED	Tucker		RT#2, Kernersville, NC
*Atkins, Wallace T.	JR	CHE		Te-23574	2600 Mayview, Raleigh, NC
Atkinson, James Harold	JR	EE	Owen		Lilesville, NC
Atkinson, Wm. Arthur	JR	CHE	Welch		1339 Blaine, Jonesville, Wisc.
Atwater, Henry Foust	SO	NE	Syme	Te-47325	511 Fountain Dr. Burlington, NC
Auchmoody, Blake Paul	FR	TE	1100 Watauga	Te-29566	606 Rotary Dr. High Point, NC
*Auman, Sherrill L.	SO	PM	409 Chamberlin	Te-23267	606 Rotary Dr. High Point, NC
*Ausbard, Robert Wm.	JR	ME	1114 Lewis Farm Rd.	Te-47325	606 Rotary Dr. High Point, NC
*Austin, Edward B.	JR	IE	24-C, Vetteville	Te-47325	606 Rotary Dr. High Point, NC
Austin, James Richard	JR	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
*Austin, James Walter	FR	HAC		Te-47325	606 Rotary Dr. High Point, NC
Austin, Jerry Lamar	FR	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
Austin, John Samuel	FR	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
Austin, Pinkney C. Jr.	FR	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
Austin, Samuel Franklin	FR	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
Austin, Sterling Oliver	FR	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
*Austin, Wm., Frederick	SO	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
Autry, Stacy Maurice	SO	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
Avent, Edward W. 3rd.	FR	ME	Tucker	Te-47325	606 Rotary Dr. High Point, NC
Avent, Thomas Edward	FR	CE	Owen	Te-47325	606 Rotary Dr. High Point, NC
Averette, Charles David	FR	CE	Becton	Te-29372	606 Rotary Dr. High Point, NC
Averette, James Donald					606 Rotary Dr. High Point, NC
Avery, Max Lindy	JR	CE	628 New Rd.	Te-44584	606 Rotary Dr. High Point, NC
Avery, R.A. Jr.	JR	EE			606 Rotary Dr. High Point, NC
*Aycock, John Holmes	JR	EE	Becton		606 Rotary Dr. High Point, NC
Ayers, Jayne Wm.	FR	E		Te-44584	606 Rotary Dr. High Point, NC
*Ayers, Lonnie Edward	SO	EE	Syme		606 Rotary Dr. High Point, NC
Ayscue, Billy N.	SO	AED	Bagwell	Te-29111	606 Rotary Dr. High Point, NC
Ayscue, Wm. N. Jr.			Owen	Te-29252	606 Rotary Dr. High Point, NC

NAME	Yr	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Babb, Herman H. Jr.	JR	ARC	23A Vetville		23A Vetville, Raleigh, NC
Bachman, Andrew Walker	JR	IE	1720 Hillsboro	Te-25165	111 Jannette, Henderson, NC
Baber, Samuel L.	FR	EE	Becton		1-E Sealwell, Havelock, NC
Baer, Kenneth R.	JR	ARC	Turlington		404 W. 6th, Raeford, NC
Baggett, Samuel M.	FR	NE	Barwell		524 Charlotte, Sanford, NC
Bagwell, Harry Lee	FR	ME	Tucker	Te-29367	Fletcher, NC
*Bailey, David Ernest	JR	TX	7 Maiden Lane	Te-23010	Morganton, NC
Baker, Allan Price	FR	DE	Tucker	Te-20975	1507 St. Marys, Raleigh, NC
Baker, David J.	FR	TX	Tucker	Te-49739	RT#1, Oxford, NC
Baker, Frank H.			3030 Farrior		RT#1, Oxford, NC
Baker, James Earl	JR	PRC	8 Bernadell Lane	Te-21755	Box 247, Cowen, W. Va.
Baker, Max Norris	SO	ME	Owen		Box 92, King, NC
Baker, Wallace Riddick	FR	ARC	Syme	Te-29222	RT#1, Belvidere, NC
*Baker, Walter Donald	JR	ARC	UK30 Vetville	Te-31542	Four Oaks, NC
Bailey, Bobby Joel	JR	TC	Turlington	Te-49279	RT#1, Box 24, Rutherfordton, NC
Bailey, David Ernest	SO	NE	Owen		815 S. Bennett, Sou. Pines, NC
Bailey, Donald C.	SO	TX	Owen	Te-49386	1112 Spindale, Spindale, NC
Bailey, Richard E.	JR	ARC	Syme	Te-22941	Box 116, Everetts, NC
Baird, Bruce Lloyd	JR	ARC	Williams Hall	Te-29131	Box 114, Faison, NC
Baldwin, Francisco	JR	ARC	3011 Hillsboro		2356 Grant, Raleigh, NC
Baldwin, John Kelly	FR	ARC	Watauga Hall	Te-29132	Balderas, Mexico 1, DF Mexico
Ball, Wm. Bernie	FR	EE	118 Hawthorne	Te-24116	Abbottsburg, NC
Ball, Wm. Roy	FR	EE	Alexander		RT#2, Newport, NC
Ballard, Lewis Franklin	JR	NE	Syme		RT#2, Mooresville, NC
Ballard, Marion Hayes	JR	ME	1710 Park Dr.	Te-21387	P.O. Box 156, Shallotte, NC
Ballard, Matthew	JR	TX	Becton	Te-29372	Andersonville, NC
*Ballard, Richard Phillip	SO	EE	Owen		Apex, NC
Ballard, Roger Wood	FR	ARC	Owen	Te-29464	New Haw Creek Rd. Asheville, NC
Ballard, Wm. Charles	FR	EE	Owen	Te-29413	RFD#2, Fucuy Springs, NC
Ballard, Wm. Rhodes	FR	ME	315 Forest Rd.	Te-23788	Asheville, NC
Ballenger, Ray Herbert	SO	ME	106 Harrison		717 Herring, Wilson, NC
Ballenger, Theodore T.	JR	ARC	Owen	Te-29570	2714 Rosedale, Raleigh, NC
Ballenger, Wm. Lewis	FR	ARC	Owen	Te-29115	138 Charles, Concord, NC
Balonicak, Paul L.	SC	IA	Alexander		309 W2nd, DuBois, Pa.
Bankett, Johnnie Ray	JR	ARC	1702A Hillsboro		RT#4, Salisbury, NC
Banks, Norman Earl	FR	NE	Owen	Te-29410	170A Tryon Rd. New Bern, NC
Bannerman, Carl Jackson	FR	OE	Barwell	Te-29131	RFD#1, Burgaw, NC
Barba F. Roberto A.	FR	OE	P.O. Box 5261		La Paz, Bolivia, SA.
*Barbee, Eugene	FR	OE	Alexander	Te-29349	116 Forest Rd., Raleigh, NC
Barbee, Robert Paul	FR	OE	Montauca		RT#1, Oakboro, NC
Barber, Arthur E. Jr.	JR	TX	Owen	Te-29142	2131 Cowan, Fayetteville, NC
Barber, Robert Francis	JR	AI	Owen	Te-29142	618 W. Allen, Hendersonville, NC
Barbot, James G.	FR	EE	Syme	Te-29222	1145 6th, Wilmington, NC
Barbour, Jesse Otho	FR	MEA	227 Wilmot Dr.		Morganton, NC
Barbour, Jon Carr	FR	ME	222 Hillcrest		427 Glenwood, Burlington, NC
Barbour, Stacy Olive			Peace College	Te-22016	Benson, NC
Barbrey, Martha Frances	JR	TX	Berry		401 William, Clinton, NC
Barchiesi, John	JR	TX	36H Vetville	Te-24102	513 Coulter, Greensboro, NC
*Barden, Edward W.	JR	TX	Montauca Trailer	Te-41189	Amelia, Virginia
*Barden, Frank Caddicus	JR	IE	11-E Vetville		Montauca Trailer Pk. Raleigh, NC
*Bare, Walter Warren	JR	IE	617 Wayne Dr.	Te-44237	RFD#1 Box 121, Jefferson, NC
*Barfield, Wm. Marion	JR	ARC	230 Daniels		315 Ave. C. New Bern, NC
*Barker, Harold G.	JR	ARC	215 Park		Statesville, NC
Barker, Jeter Oliver Jr.	SO	EE	2100 Hillsboro	Te-46394	106 Northside, Greensboro, NC
Barker, Kenneth Reece	GR	PP		Te-39855	Roaring River, NC
Barksdale, Wm. Benjamin Jr.	JR	EE	24E Vetville	Te-21387	1503 St. Mary, Raleigh, NC
Barlage, Wm. B. Jr.	GR	OE	2607 Clark		8142 Forrest, Phila, 50 Pa.
*Barlow, Wayne S.	JR	PPT	Tucker	Te-24229	RFD#1 Lenoir, NC
Barnes, Donald Ray	SO	NE		Te-29388	1007 Wilson, Wilson, NC
Barnes, Jack Kenneth	FR	NE	Alexander	Te-29349	319 E. Elm, Graham, NC
Barnes, James Elmore	FR	EE			2708 Everett, Raleigh, NC
Barnes, Lehman Wilder	SO	ORE			Smithfield, NC
Barnes, Patrick Herndon	JR	ARC	Becton		1317 Williamson Dr. Raleigh, NC
Barnes, Thomas Jefferson	JR	ARC	Syme		RT#2, Angier, NC
Barnes, Wm. Rufus	JR	EE	318 Herne St.	Te-27050	RT#2, Angier, NC
Barnes, Wm. Norman Jr.	SO	FOR	Owen		507 E. 13th, Lumberton, NC
*Barnhardt, Billy E.	JR	EE	2611 Clark	Te-43347	54 Bell Ave. Concord, NC
Barnhardt, John David	JR	TX	Barwell	Te-29412	1512 Queens Rd. Charlotte, NC
Barnhardt, Robert Lee	JR	ARC	Berry	Te-29361	Phoenixville, Pa.
Barnette, Benjamin H. Jr.	JR	AG	Tucker	Te-29342	RT#6 Box 128, Lenoir, NC
Barnett, Geo. Neill	FR	EE		Te-43342	711 Mr. Vernon, Charlotte, NC
*Barnwell, Raymond L. Jr.	JR	EE	122 Ashe Ave.	Te-43342	2125 Sheffield Rd. Raleigh, NC
Baron, Ronald L.	JR	ME		Te-43342	351 Putnam Pl. Bronx, NYC.
Barrett, Rolin Farrar	JR	ME		Te-37611	2500 Grant, Raleigh, NC
*Barringer, Bevan Kyle Jr.	JR	OE	605B Woodburn Rd.	Te-37611	424 W. Horah, Salisbury, NC
Barringer, Eddie Max	JR	TC	RT#6 Creedmore Rd.	Te-37611	Faiden, NC
Barringer, George Herbert	SO	EE	Becton		107 Koonce Circle, Jacksonville, NC
Barringer, Hubert Paul	JR	ME	Becton		118 Texas Ave. Bessemer City, NC
Boson, George S. Jr.	SO	ARC	Tucker		Sweepsonville, NC
Bartholomew, Jos. Eugene			Owen	Te-49836	213 S. Bloodworth, Raleigh, NC
Bartlett, Wm. Kenneth Jr.	FR	EE	Fourth	Te-29159	21 Arco Rd. Asheville, NC
Barton, Paul Robert	JR	ME	Stadium	Te-43343	RT#7 Box 188A Charlotte, NC
Barwick, Eugene T.	JR	ME	1410 Hillsboro		RT#2, Grifton, NC
Barwick, John Henry	FR	ARC			RT#3, Grifton, NC
Basinger, Donald Lee	FR	OE			RT#2, Box 373, Salisbury, NC
Bosnight, Floyd Lee			Tucker	Te-29323	Manns Harbor, NC
Bass, Billy Gray	JR	NE	308 Horne St.		104 Maple, Thomasville, NC
Bass, James Albert Jr.	JR	ME			109 W. End Ave. Wilson, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Bass, James Haywood	FR	NE	Becton	Te-29256	P.O. Box 61, Louisburg, NC
*Bass, James Milton	JR	IA			408 S. Elm, Dunn, NC
Bass, Joe Jackson	JR	AI	Welch	Te-29119	RT#1, Faison, NC
*Bass, Robert Edwin	FR	CE	Becton	Te-29256	204 Academy, Roxboro, NC
Nass, Roderick Sidney	FR	CE	Becton	Te-29256	RT#2, Newmarket, NC
Bass, Weldon Ray	JR	EE	1620 Hillsboro	Te-29531	RT#1, Dunn, NC
Bass, William Hartwell Jr.	SO	EE	3413 Hillsboro	Te-34808	Falmouth, Va.
Bassett, Charles C.	SR	FYM	1720 Hillsboro	Te-49883	Sassett, Va.
Bateman, David Thompson	FR	CHE	Alexander	Te-29349	Tyner, NC
*Bates, Lawrence Herman	SO	CEC	170, Raleigh		33 Westchester, Asheville, NC
Battle, Thomas C.	SO	MEA	1508 Frank	Te-29110	Statesville, NC
Batten, Goy Medlin	SO	ME	Owen	Te-29410	RT#1, Raleigh, NC
Batten, Virgil F.	FR	CHE	Tucker	Te-29256	RFD #2, Whiteville, NC
Battista, Ello	FR	MEA	Syme		100 Summer, Greenville, Mass.
Bartlett, Wm. Preston	JR	CE	2400 Delta Dr.	Te-27793	Ganden, NC
*Batts, James S.	JR	AED	12 Bagwell Ave.	Te-29256	RT#1, Fayetteville, NC
Batts, Wm. Morris Jr.	JR	HAC	2232 Hillsboro	Te-46591	RT#1, Raleigh, NC
Baucum, Julian Milton	JR	AH	Tucker	Te-29388	Lancaster Ave. Monroe, NC
Baucum, Marshall Howard	FR	ARC	Tucker	Te-29297	1100 W. Main, Greensboro, NC
Bauer, Lawrence P. Jr.	SO	FOR	Turlington		1010 McArthur, Russellton, Pa.
Baxter, Earl Stewart	JR	CE	215 Park Ave.		4516 Winston, Greensboro, NC
Baxter, John David	SO	EE	Bagwell	Te-29131	RT#1, Newmarket, NC
Baxter, Larry Ben	FR	AED	414 Baylar Ave.	Te-29137	RT#8, Winston-Salem, NC
Baynes, Thomas S. Jr.	SO	TX	21031 Marshall Jr.		206 E. James, Mt. Olive, NC
Bazemore, Helen Joyce	SR	IRR	Owen	Te-29410	RT#1, Raleigh, NC
Bazands, Peter Arthur	JR	MTE	1833 Glenwood		RT#1, Raleigh, NC
*Beachem, Cederic D.	JR	EE	Becton	Te-29172	453 Donald Rd., Pitt, Pa.
Beacon, Joseph Albert Jr.	FR	CE	Tucker		RT#1, Fayetteville, NC
Beadles, Thomas Millard	FR	CE	Tucker		RT#1, Fayetteville, NC
Beadles, Robert Leon	FR	EE	Tucker	Te-29172	RT#1, Fayetteville, NC
Beakley, John Coleman	SO	PHY	Owen	Te-29172	RT#1, Fayetteville, NC
Beam, David Conrad	FR	CHE	Tucker	Te-29172	RT#2, Wendale, NC
Beam, John Mark Jr.	FR	CEC	2651 Clark Ave.		RT#1, Raleigh, NC
Beam, Richard Moore	FR	CE	103 Welch	Te-29119	RT#1, Raleigh, NC
*Beam, Warren	SO	EE	Syme		Lincolnton, NC
*Beaman, John E. Jr.	JR	HAC	W-4 Country Club Hms.	Te-4441	W-4 Country Club Hms., Raleigh, NC
Beaman, Philip Leo	JR	AED	21 Enterprise	Te-27840	RT#1, Raleigh, NC
Beamer, Wm. Fred Jr.	FR	NE	Alexander	Te-29349	2123 Grant, Raleigh, NC
*Bean, Bernie Cletas	JR	ME	Alexander	Te-4444	RT#1, Raleigh, NC
Bean, Donald Wilson	JR	CE			637 Highland, High Point, NC
Bean, Fred Harold	JR	PHY	Alexander		525 3rd St. E., Lenoir, NC
Bean, Walter Lewis, Jr.	SO	CE	2802 Hillsboro		RT#1, Fayetteville, NC
*Beane, Jos. Wayne	SO	CE	Becton	Te-29334	RFD #1, Fayetteville, NC
Beard, William C. Jr.	FR	IA	Owen	Te-29410	2729 Anderson, Raleigh, NC
Beasley, Benjamin F.	FR	AED	RT#3, Four Links		RT#2, Benson, NC
Beasley, Donnie F.	FR	PPT	Owen	Te-29350	RT#1, Raleigh, NC
Beasley, Eustace Orland	FR	CE	Berry		RT#2, Box 23, Wilmington, NC
Beasley, Jerry Nelson	FR	CE	Owen	Te-29293	210 Cox, Raleigh, NC
Beasley, Leroy Jr.	JR	TA	Box 10594	Te-26903	RT#1, Raleigh, NC
*Beatty, Robert E.	FR	CE	Becton	Te-29334	705 N. Fulton, Salisbury, NC
*Beatty, Henry Francis	JR	IA	Becton		RT#2, Box 29, China Grove, NC
Beatty Neill McLaurin	FR	CE	Turlington	Te-29312	530 Weatherspoon, Sanford, NC
Beaver, Jimmy Burton	FR	CE	Tucker	Te-29293	177 Vermont, Newark, NJ.
*Beaver, Junius Leroy	JR	CE	Tucker		Miami Beach Fla.
Beaver, Norman Alexander	FR	TX	Tucker		Brookside, NJ
Beaver, Wm. Robert	FR	MEA	115 Woodburn		St. Albans 12, NY
Beck, Harold Drew	JR	FOR	144 W. Main	Te-40459	Dehuk, Iraq
*Becker, Robert Wm.	JR	CEC	34M Vetville		1910 Colonial, Greensboro, NC
Beckham, Paul Woods	JR	CE	Fourth		Manteo, NC
Bedell, Stewart Wayne	JR	CE	Tucker		RT#1, Statesville, NC
Bedd, Gerard Walter	JR	CE	Tucker		RT#1, Raleigh, NC
Beeson, Hugh Bartis	JR	ME	1631 VanDyke		RT#1, Raleigh, NC
*Behnken, Donald W.	SR	PHY	130 Woodburn Rd.	Te-29297	RFD #2, Zebulon, NC
Bekou, Shandon Ida	JR	CHE	Turlington		112 Grande, Raleigh, NC
Belk, John Newsome	JR	WOM	Tucker		Va. Hosp. Fayetteville, NC
Bell, Albert G. Jr.	FR	EE	Becton	Te-29363	144 Jones-Franklin Rd. Raleigh, NC
Bell, Clive G.	FR	EE	707 Aycock	Te-29363	205 W. Chestnut, Goldsboro, NC
Bell, Jon Michael	SO	CEC	Berry	Te-29363	111 W. Main, Raleigh, NC
Bell, Robert H.	JR	TA	3205 Hillsboro	Te-29363	160, Vetville, Raleigh, NC
Bell, Rodney McAbb	FR	TA	Owen	Te-29363	30 P. Vetville, Raleigh, NC
Bell, Thurman Ronald	FR	CHE	6-A Vetville	Te-29363	129 E. Devonshire, Winston-Salem, NC
Bellis, Vince Jr.	FR	CHE	36-D Vetville	Te-29363	401 McDonald, Hamlet, NC
*Belote, James Calvin	SR	CE	Owen	Te-29363	5401 Dairy Dr. Fayetteville, NC
*Belote, James Dorton	SO	ME	Owen	Te-29363	2812 Claremont Rd. Raleigh, NC
Boman, Lyle Law	JR	CE	Owen	Te-29363	4105 Western Blvd. Raleigh, NC
*Benjamin Wm. Edward	JR	CE	Owen	Te-29363	1100 W. Main, Greenville, NC
Bennett, Allen Ames	JR	CHE	Owen	Te-29363	1402 Highland, Hendersonville, NC
*Bennett, Cerroll Winford	SO	EE	Owen	Te-29363	707 Fairmont, Greensboro, NC
Bennett, Emil Everett	SR	IE	Owen	Te-29363	401 P. Varnum, NC
Bennett, Joel C. Jr.	SO	HAT	Owen	Te-29363	140 Hill Ave. Sanford, NC
Benton, Julia Adelaide	SO	TC	Owen	Te-29363	
Bennett, Hugh C. Jr.	FR	CE	Owen	Te-29363	
*Bennett, Robert Elwin	FR	CE	Owen	Te-29363	
Bennett, Robert Merrill	FR	CE	Owen	Te-29363	
Bennett, Willett B. Jr.	FR	CE	Owen	Te-29363	
Benson, Neil Carson	FR	CE	Owen	Te-29363	
Benton, Franklin E.	JR	CE	Owen	Te-29363	
*Benton, Kenneth Roberts	JR	CE	Owen	Te-29363	

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Benton, Robert R.	SO	EE	Tucker		1708 Doune, Winston-Salem, NC
Benton, Whitson LeGrand	FR	A2			Rt#1, Varina, NC
Berman, Harvey, S.	JR	IE	Syme		706 Lefferts, Brooklyn, NY
Berman, Stanley Bertram	JR	TX	130 Hawthorne	Te-47325	269 Fountain, Englewood, NJ
*Bernstein, Daniel	JR	GEE	31N Vetville	Te-43220	509 Pineview, Goldsboro, NC
Bernzweig, David Saul	SR	CE	Alexander	Te-29257	473 Wilford, Brooklyn, NY
Berry, Harold Bernard	JR	CE	Becton		Durham, NC
Berry Joseph Gilbert Jr.	SO	CE	Owen		Park St. Vienna, Va.
Berryhill, Carl Mack	FR	E	Tucker		RT#5, Charlotte, NC
Best, Jimmy Ray	JR	AED	Becton		RT#2, Box 320, Goldsboro, NC
Best, Wm. Kenneth	FR	ARC	Owen	Te-29252	RT#1, Box 200, Mt. Olive, NC
Best, Willie Dean	SR	IE	315 Forest Rd.	Te-23788	324 E. Chestnut, Goldsboro, NC
Beumer, Cecil W.	SR	IE	3525 Neil St.		8 Lake Dr. Enka, NC
*Biddy, Ellis Ann	SO	IE			Box 61, Landis, NC
*Biddy, Oscar David Jr.					3525 Neil St. Raleigh, NC
Biedler, Lester K. Jr.	SO	CE	Alexander	Te-29257	Columbus, NC
Biggers, James H. Jr.	SR	ME	Turlington		Indian Trail, NC
*Biggerstaff, Ralph Edwin	JR	AED	22E, Vetville	Te-40500	RT#2, Bostic, NC
Biggs, Thomas Otho	FR	CE	Syme		Manteo, NC
Boone, Charles Spencer	JR	PSC	Becton	Te-29261	845 Mash, Rocky Mount, NC
*Billings, Frank A.	SR	CE	801 B. Daniels		Dudley, NC
Billingsley, John David	SO	WGM	Syme	Te-28684	RT#2, Peachland, NC
*Billinsley, Wm. Everett	SR	ME	1508 Frank St.	Te-29421	RT#1, Box 516, Hamlet, NC
Bingham, Carol Reid	JR	NE	Syme		RT#2, Lawndale, NC
*Birch, Dan Louis					2710 Coolee, Raleigh, NC
Birch, John Neil	JR	EE		Te-28295	2710 Coolee, Raleigh, NC
Bishop, Jack	SO			Te-26511	224 Woodborn, Raleigh, NC
Bishop, Reginald H. Jr.	FR	A1	Turlington		513 Riverside, Belhaven, NC
Bissett, Lawrence Lynn	SR	CEC	106 Harrison	Te-37155	423 Westover, Wilson, NC
Bissett, Ted	JR	A2	Tucker		Spring Hope, NC
Bissette, Wm. Arthur	FR	ME	Stadium	Te-49803	405 N. James, Goldsboro, NC
Bissette, Wm. Elton Jr.	SO	NE	Tucker	Te-29388	1103 Herrin, Wilson, NC
Bitting, John Henry Jr.	JR	EE	Owen	Te-29410	240 S. Laurel, Charlotte, NC
Bittinger, Charles Lewis	FR	EE	Bagwell	Te-49151	Box 58, Mooresville, NC
Bivins, James Frank	JR	EE	Syme		Surry Ave. Elkin, NC
Bivins, Luther Edgar	FR	ME	Bagwell	Te-49151	5117 Henderson, Washington, DC
*Bizzell, James E.	JR	CE		Te-28586	2714 Vanderbilt, Raleigh, NC
Bizzell, Wm. Lee Jr.	JR	EE	Stadium	Te-49803	305 S. Oleander, Goldsboro, NC
Bizzell, Wm. Pitt	JR	EE	Turlington	Te-29297	108 Magnolia, Payetteville, NC
Black, Boyd Delaine	SO	CE	120 Forest Rd.		RT#2, Weaverville, NC
Black, David Harrison Jr.	SR	EE	Owen		P.O. Box 283, Rockingham, NC
Black, John Lester	SO	CEC	Berry		RT#8, Box 182, Charlotte, NC
*Blackburn, James Donald	JR	CE	434 Halifax		RT#6, Mt. Airy, NC
*Blackman, John Henry					Lillington, NC
Blackman, Thomas Lester	FR	ME	Bagwell		RT#2, Four Oaks, NC
Blackwelder, Robert T.	SO	EE	Turlington	Te-29789	2615 Commonwealth, Charlotte, NC
Blackwell, Harley E.	SO	HRT	Tucker		RFD#2, Hendersonville, NC
*Blackwell Rufus H. 3rd.	FR	MEA	1508 Frank St.	Te-46093	400 Kenilworth, Asheville, NC
*Blackwood, Ralph L. Jr.	JR	MEA	1428 O'Berry		RT#3, Chapel Hill, NC
*Blair, Cornelius F.					524 Highland, Raleigh, NC
*Blair, Henry E.	JR	FMF	809B. Daniels	Te-47094	RFD#1, High Point, NC
*Blake, Carl Thomas					U. K. 33, Vetsville, Raleigh, NC
Blake, Roy Baxter Jr.	FR	EE	Bagwell	Te-29412	1167 Boone, Winston-Salem, NC
Blakey, Lewis H.	JR	CE	2323 Byrd		112 Rarleton, Burlington, NC
Blacklock, Wm. A.	JR	FOR	Tucker		RT#1, Horse Shoe, NC
*Blanchard, Decatur Dr. Jr.	FR	CE	Becton	Te-29372	1217 Kent, Raleigh, NC
Bland, Durwood Gene	FR	EE	Bagwell	Te-29131	RT#2, Box 596, Roanoke Rapids, NC
*Blankenship, Robert Leroy	FR	CE		Te-35740	Cherokee, NC
Blankford, George Gordon	JR	CHE		Te-37552	2722 Anderson, Raleigh, NC
*Blanton, Leonard Franklin	JR	DM		Te-21823	19 Bagwell, Raleigh, NC
Bledsoe, Leard B. Jr.	SO	CHE			1224 Courtland, Raleigh, NC
Blevins, David Kerry	SO	TX		Te-49805	RT#1, Cameron, NC
Blevins, Joe L.	FR	CE	Syme	Te-49805	Crumpler, NC
Blevins, John Oliver	JR	TX	2116 Hillsboro	Te-44173	904 Parrott, Kinston, NC
*Blizard, Warren Emery					2104 St. James, Raleigh, NC
Bloodworth, James Morris	FR	ME			1914 Hawkins, Raleigh, NC
*Blount, Harry Anderson Jr.	SR	HAC	9-A Vetville	Te-48853	203 Mitchell, Salisbury, NC
*Blue, Carson A.	SR	IE			804 Dixie Trail, Raleigh, NC
Blum, Peter Wilson 3rd.	JR	ME	Owen	Te-9131	1443 Meadowbrook, Winston-Salem, NC
Bobbitt, Henry D. 3rd.	FR	ME	Bagwell	Te-29115	114 W.N. Main, Littleton, NC
Boger, Bobby Duke	SO	AGE	Owen	Te-29388	RT#4, Winston-Salem, NC
Boggan, Wm. Oliver	FR	ME	Tucker		1106 Helen, Monroe, NC
Boggs, Julius Mull	FR	ME	Owen	Te-49739	RT#3, Lawndale, NC
Boles, Billy Joe	FR	AED	Tucker		RT#1, King, NC
Boles, Robert Wayne	JR	AED	Berry		RT#2, Walnut Cove, NC
Bolick, Aaron	FR	E	Watauga	Te-29132	RT#1, Newton, NC
Boling, Zenas	SR	IE	210 Cox Apt 6	Te-48946	1204 Chronicle, Gastonia, NC
Bollinger, Howard Eli	SO	AGE	2100 Hillsboro	Te-46094	RT#2, Granit Falls, NC
Bonci, Roy Domenick	SO	IA	Tucker		1001 Warren, New Castle, Pa.
Bond, Edgar Ray, Jr.	SO	IE	Welch		RT#9, Box 53B, Greensboro, NC
Bond, Gordon Randel	FR	NE	Tucker	Te-29312	1814 Walton, Bluefield, W. Va.
Bond, Linwood Darden	JR	CE	Tucker		RFD Edenton, NC
*Bondurant, Rush Walton Jr.	SR	CHE	11-C Vetville	Te-32375	102 Marshall, Williamston, NC
Bonner, Malcolm Ray Jr.	SO	MEA	Tucker		P.O. Box 11, Comfort, NC
Booker, Richard Deans					2902 O'Berry, Raleigh, NC
Booker, Wm. Clayton Jr.	FR	ME	Syme	Te-29150	Box 1342, Reidsville, NC
*Booker, Wm. Murray	JR	HRT		Te-29833	1205 Duplin, Raleigh, NC
Booth, Judson Vaughn	SR	IE	2601 Clark Ave.		410 Mason, Durham, NC
Booth, Wm. Donald	JE	CEC	2513 Clark	Te-20268	1805 University, Durham, NC
Boone, Carl Harrison		AG	Owen		RT#2, Elm City, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Boone, Dan H.	FR	EE	Bagwell	Te-29412	446 Nash, Rocky Mount, NC
Boone, Henry Chester	FR	CE	Tucker		RFD #1, Box 12, Gates, NC
Boone, Wm. Jordan	SO	TX	117 Watauga		RT #1, Gates, NC
Borik, Joseph Marion	SR	CEC			1210 Glenwood, Raleigh, NC
*Bordeaux, Joseph T.	JR	CE		Te-29444	68, Vetville, Raleigh, NC
Boren, Benjamin Clark Jr.	SO	EE	926N. Bayliss	Te-37128	Siler City, NC
Borg, John Carl	SO	IE	Owen		1000 S. Main St., Winterville, NC
*Boremann, Waldo P.	FR	IE		Te-39174	Box 100, Winterville, NC
Bortko, Walter D.	FR	IRR	Alexander		Box 100, Winterville, NC
Bowman, Dewey Wm.	JR	CEC	Box 100	Te-29531	Box 100, Winterville, NC
Bost, Donald S.	JR	NE	1718 Hillsboro		Box 100, Winterville, NC
*Bost, James F.	SO	EE	Box 415, Raleigh		Box 100, Winterville, NC
Bost, Ronald Marshall	FR	FOR	Owen		Box 100, Winterville, NC
Bost, Thomas J.	JR	ME	Syme		Box 100, Winterville, NC
Bostian K.E.	JR		1903 Hillsboro		Box 100, Winterville, NC
Bostian, Larry Charles	JR	IRR	Tucker	Te-29328	Box 100, Winterville, NC
Bowtick, Graham Wilson	SO	MM			Box 100, Winterville, NC
Boswell, Ralph R.	SO	CE	1011 Hillsboro	Te-34808	Box 100, Winterville, NC
Boswell, Wm. Thomas	JR	ME	217 Summers		Box 100, Winterville, NC
*Bottoms, Carl F.	SO	IE	Owen		Box 100, Winterville, NC
Brown, David Len	SR	ENT	1710 Park Dr.	Te-21327	Box 100, Winterville, NC
Brown, James L.	FR	CE	Becton		Box 100, Winterville, NC
*Bowen, Willie Charles	SO	TX	Syme	Te-29228	Box 100, Winterville, NC
Bowie, Bobby Webb	FR	IE	1425 Sumner	Te-31530	Box 100, Winterville, NC
Bowless, Zane Grey	FR	AT			Box 100, Winterville, NC
Bowling, Arthur Jack	FR	MTE	Becton		Box 100, Winterville, NC
*Bowling, Joseph W.				Te-38621	Box 100, Winterville, NC
Bowman, James E.					Box 100, Winterville, NC
Bowman, Worth B. 2nd.	JR	NE	218 Chamberlain		Box 100, Winterville, NC
*Boulorne, Pierre M. Jr.	SR	PM			Box 100, Winterville, NC
Bourne, David Collins	SO	IRR	Owen		Box 100, Winterville, NC
*Boyd, Chester R. Jr.	SO	IA		Te-21892	605 Sasser, Raleigh, NC
Boyd, Daniel Marcus Jr.	FR	EE	Turlington	Te-29297	Box 100, Winterville, NC
*Boyd, David L.	FR	EE	602 E. Academy		Box 100, Winterville, NC
Boyd, Edger Laura	FR	AG	Tucker		Box 100, Winterville, NC
*Boyd, Julius J.	JR	AGB	100 Anne	Te-45744	Box 100, Winterville, NC
Boyd, Richard Melvin		IA			Box 100, Winterville, NC
Boyd, Willard G. Jr.	FR	EE	Owen	Te-29142	Box 100, Winterville, NC
Boyden, Richmond P.	JR	MEA	Berry	Te-29363	251 Fairway, Asheville, NC
Boyette, Leslie D.	FR	TX	Tucker	Te-29312	15 Front, Rockingham, NC
Boyles, Jack Swam	FR	AG	Owen		RT #3, Lawndale, NC
Boys, George W. Jr.	FR	TX	Owen		Tuxedo, NC
Boyette, Charles W.	JR	AGC			Box 100, Winterville, NC
Brabrand, Andrew B.	FR	PPT	Turlington	Te-49279	Box 100, Winterville, NC
Bradbury, Malcom L. Jr.	JR	IE	Turlington	Te-49279	611 Crowell, Wilson, NC
*Bradford, Wm. Thomas Jr.		IE	2315 Grant	Te-27915	Box 100, Winterville, NC
*Bradley, Nelson A.		EE			Box 100, Winterville, NC
Bradley, Sherwood McD. Jr.	FR	ME		Te-31596	Box 100, Winterville, NC
*Bradley, Wm. Francis	JR	NE	294, Vetville		Box 100, Winterville, NC
Bradshaw, Derris Ray		IRR	Tucker		Box 100, Winterville, NC
Bradshaw, Walter Taft			124 St. Mary		Box 100, Winterville, NC
Brady, Cassey J. Jr.	FR	TX	Bagwell	Te-29412	Box 100, Winterville, NC
*Brady, Charles Ray	JR	ME			Box 100, Winterville, NC
Brady, Harry Wm.	JR	ME	Tucker		Box 100, Winterville, NC
Brady, Larry E.	FR	ME		Te-29150	Box 100, Winterville, NC
*Brady, Paul C.	JR	MEA	902 W. South	Te-21722	Box 100, Winterville, NC
Braggassa, Reamey D.	FR	ME			Box 100, Winterville, NC
*Brake, John Ronald	FR	ATC			Box 100, Winterville, NC
Brake, Robert F.	FR	CE	Becton		Box 100, Winterville, NC
Brame, James A.	FR	ME	Turlington	Te-29123	Box 100, Winterville, NC
Bramlett, David Lee	FR	ME		Te-47936	Box 100, Winterville, NC
*Branan, Nunan Carson	FR	AT	201 T. Patterson		Box 100, Winterville, NC
Brandon, Wm. Franklin	FR	AGC	Owen	Te-29116	Box 100, Winterville, NC
*Brannan, Willie Lester	JR	EE		Te-20219	Box 100, Winterville, NC
*Braswell, Daniel Luther	FR	NE		Te-46642	Box 100, Winterville, NC
*Braswell, Edward Earl	FR	MEA	Cameron Village		Box 100, Winterville, NC
Braswell, James Wm.	SO	ME	Tucker		Box 100, Winterville, NC
*Brattain, Daniel W. Jr.	SO	HAC	1054 Park	Te-49404	Sakboro, NC
Bratten, Douglas P.	SO		Bagwell		Box 100, Winterville, NC
Brawley, Joel V.					Box 100, Winterville, NC
Braxton, Paul G.		TX	Tucker		122 N. Sycamore, Mooresville, NC
*Bray, Walter Thomas	FR		521 Dixie Trail		RT #3, Siler City, NC
Bray, Wm. Randall	FR	ARC			Box 100, Winterville, NC
Breeman, Leonard G.	FR	FOR			Kona, NC
Breeze, Marvin McC	JR	ME			4522 Wake Forest, Durham, NC
*Brendle, Denver A.	FR	EE			Box 100, Winterville, NC
*Brenner, Cecil F.				Te-49421	Box 100, Winterville, NC
Brewer, Eddie C. Jr.		ME	Berry		Box 100, Winterville, NC
Brewer, James Lee Jr.	FR	EE			Box 100, Winterville, NC
Brewer, Ronald Ellis	FR	TX	2412 Clark		Box 100, Winterville, NC
Brewer, Stephen David	FR	CE	Syme	Te-29228	Box 100, Winterville, NC
Buck, Edward Ray	FR	EE	Turlington		Box 100, Winterville, NC
Bridges, Gary Bryant	FR	CE	Syme		Box 100, Winterville, NC
Bridgers, James E. Jr.	FR	EE			Box 100, Winterville, NC
Bridgers, Ronald Keith	FR	ME	Alexander	Te-29149	Box 100, Winterville, NC
*Bridger, Charles O.	FR		3K2-Vetville		Bladenboro, NC
*Bridger, James Albert Jr.	SR	ME			

NAME	YM	CHURCH	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Bridges, Thomas Wayne	FR	ONE	Syme	Te-29241	Waynesville, NC
*Bridges, Wayne Crowell	SR	CE	621 W. Lane		Box 541, Rutherfordton, NC
*Brigham, Charles James	FR	FOR	Owen		3923 Cobb, Raleigh, NC
Briggs, Charles Stephen	FR	FOR	Owen		Aurora, NC
Briggs, Max Jr.	FR	AED	Bagwell		RT#1, Arden, NC
*Briggs, Raymond Gary	FR	ME	Becton	Te-42996	1881 W. Smallwood, Raleigh, NC
Briggs, Thomas H. Jr.	JR	AED	Becton	Te-29256	211 E. Aycock, Raleigh, NC
Bright, J. G.	JR	AE	621 Aycock	Te-25717	RT#1, Beemont, NC
Bright, Tom L.	SO	AE	Bagwell		128 Sunset, Winston-Salem, NC
Brigham, Herman Jewell	JR	AE	Owen		302 Roanoke Rapids, NC
Briles, David Harold	SR	ME	Owen		RT#3, Asheboro, NC
Briley, Robert Francis	JR	AG	Tucker	Te-29388	RT#1, Polkton, NC
Briley, Sidney E.	SR	IE	120 Hillcrest		Greenville, NC
Brill, Richard B.	FR	FOR	Tucker		Urbanna, Va.
Brinkley, Charles Wm.	FR	FOR	Tucker	Te-29312	RTD#4, Box 376, Salisbury, NC
Brinkley, Claude Franklin	FR	AE	2314 Hillsboro	Te-41006	111 London Lane, Mount Airy, NC
Brinkley, Sherrill K.	JR	AG	2100 Hillsboro	Te-40994	RT#5, Mocksville, NC
Briscoe, John Roger	SO	TX	222 Hillcrest	Te-23429	117 Morris, Mt. Lakes, NJ
Brisson, Robert Curtis	SO	AED	Tucker		Tar Heel, NC
*Britland, Walter Raymond	SO	AE	Bagwell		813 Daniels, Raleigh, NC
Britt, Clarence Willard	JR	ME			Box 114, Roxboro, NC
*Britt, John O. Jr.	JR	ME		Te-29572	RT#6, Raleigh, NC
Britt, Malcolm Vernon	FR	TX			RT#1, Garner, NC
*Britt, Robert Curtiss	SR	TX		Te-40613	363, Wetville, Raleigh, NC
Britt, Sydney P.	FR	AE	Owen	Te-29115	415 E. 3rd, Arden, NC
Brock, Ernest Colvin	FR	ME	Syme		303 Bailey, Kannapolis, NC
Brock, Lonnie Stubbs	JR	TX	Wen		110 N. Highland, Raeford, NC
*Brock, Walter Donald	FR	IE			964 Wilmington, Raleigh, NC
Brockwell, John Albert	FR	AE		Te-27243	1917 Alexander, Raleigh, NC
*Brooks, Cecil Charlie	JR	ME	1917 Nichols		Box 125, Danvers, Va.
Brooks, Delbert Ray	FR	ME	Becton	Te-29334	Box 284, Jopota, NC
*Brooks, Garnett Tabor	SR	TX	Turlington		163 Kensington, Fayetteville, NC
Brooks, James Oliver	SR	TX	130 Woodburn Rd.	Te-40444	464 Springs, NC
Brooks, Richard Joyner	SR	AE	Berry		Box 208 Brevard, NC
Brooks, Robert Charles	FR	AG		Te-36936	Sunny Brook Rd., Raleigh, NC
*Brooks, nonny Leonard	SR	IE	105 Williams	Te-41071	F-5, Shelton Apts, Raleigh, NC
Broome, Samuel Neal	JR	CE	124 E. Park Dr.	Te-22420	RT#3, Carthage, NC
Broome, Claude Matthews	JR	AE		Te-20444	621 Jackson, Charlotte, NC
*Broome, George Glenn	JR	IE	2 Ashe		2504 Mayview Rd., Raleigh, NC
*Broome, Shirley Clayton	FR	AG	2 Ashe		Aurora, NC
Brown, Betty Joanne	SO	NE		Te-31168	2710 Kittrell Dr., Raleigh, NC
Brown, Billy Lee	JR	AG	Tucker		RT#1, Mt. Airy, NC
Brown, Billy Harold	SR	AED	123 Ashe	Te-32129	RT#3, Selma, NC
Brown, Billy Ray	FR	SE	Owen	Te-29464	RT#1, Lenoir, NC
Brown, Bobby James	FR	IE	Becton	Te-29334	229 E. Catawba, Mooresville, NC
Brown, Dallas James	FR	CE	Tucker		Lane St., Kannapolis, NC
Brown, Dalton Zallis	FR	FOR	Syme	Te-29150	Eastside Dr., Statesville, NC
Brown, Elbert Gordon	JR	ME	Farmhouse Frat.	Te-46394	RT#4, Charlotte, NC
Brown, Eugene Wilson	FR	FOR	Pouth		104 Herbert, Durham, NC
Brown, James Allen	FR	AND	Farmhouse Frat.	Te-46394	RT#3, Box 150, LaGrange, NC
Brown, James Lyndon	FR	ME	Tucker		2727 Stockton, Winston-Salem, NC
*Brown, James N. Jr.	FR	ME	2143 N. Harrington		Madison, NC
Brown, James Richmond	FR	ME	3208 1/2 Hope		Fayetteville, NC
Brown, James T.	FR	ME			525 E. Jones, Smithfield, NC
Brown, Gene Talmadge	FR	ME	127 Alexander		203 E. Portsmouth, Winston-Salem, NC
Brown, George Trescot	SR	ME	2512 Clark Ave.	Te-24943	2039 Vail, Charlotte, NC
Brown, George Washington	FR	ME	110 Cox	Te-43473	130 Cox, Raleigh, NC
Brown, Homer Scott	SO	ME	Owen	Te-29437	RT#2, Selma, NC
*Brown, James Melton	FR	AG			3015 Leonard, Raleigh, NC
Brown, John A.	FR	ME	316 E. Hargett	Te-25914	RT#1, Spruce Pine, NC
Brown, John Taylor	JR	ME	Welch		Box 567, Swannanoa, NC
Brown, John T. Jr.	SO	CE	Tucker		Concord, NC
Brown, John Wesley	FR	ME		Te-43043	130 Cox, Apt. D, Raleigh, NC
*Brown, Joseph Matt	FR	ME	204 Faircloth		418 S. Willow, Gastonia, NC
*Brown, Kenneth Eugene	JR	MEA	Alexander		2415 Everette, Raleigh, NC
Brown, Kenneth Freeman	FR	ME	Tucker	Te-49739	2236 Spencer, New Bern, NC
Brown, Larry Austin	FR	WCM	2824 Claremont	Te-33714	Franklin, NC
Brown, Linwood Collins	JR	ME			121AE Maple, Palmyra, Pa.
Brown, Reece Edward Jr.	JR	AI	Farmhouse Frat.	Te-46094	604 Oak Rd., Raleigh, NC
Brown, Robert B.	SO	EE	1618 Oberlin Rd.	Te-20912	RT#1, Charlotte, NC
Brown, Robert Lee	FR	CE	Tucker	Te-49739	Box 295, N. Wilksboro, NC
*Brown, Robert Vance Jr.	FR	AG		Te-36069	RT#1, Hartford, NC
Brown, Roderick Burton	SO	ME	Owen		906 Chaney, Raleigh, NC
Brown, Roger Dan	JR	EE	Turlington		Asheford, NC
Brown, Ronald Alan	JR	ME	2100 Hillsboro	Te-46094	1006 E. Mauney, Gastonia, NC
Brown, Samuel Ray	FR	ME	Bagwell	Te-49151	305 N. Holden, Greensboro, NC
Brown, Stephen Hunt	FR	ME		Te-29253	Box 36, Pilot Mtn., NC
*Brown, Steve Kelly	SR	ME	186, Vetville		311 S. Slocumb, Goldsboro, NC
Brown, Thomas Clark	FR	ME			RT#1, Hendersonville, NC
Brown, Wm. Jasper Jr.	JR	IA	Watauga	Te-29447	RTD#1, Arden, NC
Browning, David B. Jr.	FR	AE	Syme	Te-29150	RT#2, Raleigh, NC
Browning, Jesse David	SR	ARC			204 N. Granville, Edenton, NC
*Browning, Harry Paul	FR	ME			RT#1, Box 438, Wilmington, NC
Brummett, Thelma Louise	JR	ME	309 N. King Charles		2113 Glenwood, Raleigh, NC
Browning, Wm. Gilbert	FR	EE	Tucker	Te-47939	P.O. Box 625, Chapel Hill, NC
Broyhill, George David	FR	EE		Te-29498	Box 1 RT#5, Hickory, NC
Bryan, Laddie Daniel Jr.	FR	LA	33F, Vetville		RT#3, Mooresville, NC
					628 Oakwood, Sanford, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Bryant, Charles Hugh	SO	CE	Alexander	Te-29257	RT#1, Yadkinville, NC
Bryant, Edward Graham	SO	CE	Alexander	Te-49745	Ararat, NC
Bryant, Horace B. Jr.	WM	CHS	1620 Hillsboro		1408 Oakland, Hendersonville, NC
Bryant, John Burtis	SR	IE	Gold		206 Oakleaf, Wilmington, NC
Bryant, Joseph Dingus	SR	AGE	2512 Clark	Te-21843	Wallace, NC
Bryant, Richard Earle	SR	IE	2614 Van Dyke	Te-28608	208 Parkview, Brevard, NC
Bryant, Sherrill Miller	SR	AGC	2804 Hillsboro	Te-22654	Boonville, NC
Bryson, John Ashby	FR	ARC	Tucker	Te-49739	Asheville, NC
Buck, Ernest Mauro	GR	AI	UK 46, Vetville	Te-37725	Bloomfield, Conn.
Bueck, Hieronymus Clell	FR	ME	Bagwell		209 S. 3rd, Sanford, NC
Buchanan, Harold Wade	SR	TX	122 Hillcrest	Te-21453	Jacksonville, Fla.
Buckman, Keith Phil	FR	CE	Bagwell		522 Summit, Sanford, NC
Buckner, Raymond T.	FR	EE	130 Cox, #D.	Te-43043	101 Park, Belmont, NC
Buchanan, Robert Paul Jr.	SO	CE	Owen	Te-29464	Box E, Yadkinville, NC
Buck, Edward Ray	FR	EE	Turlington		RT#2, Forest City, NC
Buck, Oscar L. Jr.	FR	AEI	Becton		RFD#2, Washington, NC
Buckner, John Frank	FR	IRR	Syme		Black Mtn, NC
Buff, Larry Scott	SR	TX	Owen	Te-29115	RT#1, Newton, NC
Buffalo, William Bryant Jr.					820 Garner Rd., Garner, NC
Bulla, Wm. Darrell	FR	CE	Alexander		1043 Wellington, High Point, NC
Bullard, Amos Gentry Jr.	GR	NE		Te-72602	124 Park, Raleigh, NC
Bullard, Edmond R.	FR	EE	Becton		Nashville Hwy. Rocky Mount, NC
Bullard, James Connor	SO	EE	Owen	Te-29115	Box 284, Charlotte, NC
Bullin, Jerry Wayne	FR	PMW	Tucker	Te-29123	1403 Ragan, High Point, NC
Bullis, Gary Harvey	FR	ME	Bagwell		1522 Hanover, Burlington, NC
Bullock, Donald Wayne	FR	CE	Owen	Te-29410	RT#3, Durham, NC
Bullock, George Luther Jr.	FR	EE	Syme	Te-29288	Carrboro, NC
Bullock, John	SO	EE			3017 Parrior, Raleigh, NC
Bullock, Larry James	FR	EE	2320 S. Clark		117 E. Main, Williamston, NC
Bullock, Orren Russell	FR	ME	Syme	Te-29288	Weaver, Carrboro, NC
Bullock, Wm. Bennett	FR	MEA	2513 Clark	Te-20268	714 Monroe, Roanoke Rapids, NC
Bunch, Laurence Wm.	SO	ARC	Syme		4216 39th, W. Hanter, Md.
Bunch, Roger Cullen	FR	AG	Box 618, Gary		RT#1, Tyner, NC
Bundy, Bobby Franklin	FR	CEC		Te-38006	1321 Chester, Raleigh, NC
Bunker, Bobby Edward	SR	TX	Owen		Box 206 Toast, NC
Bunn, David Buster	FR	AGE	Alexander	Te-29349	RT#2, Pikeville, NC
Bunn, John Trent	SO	EE	Turlington	Te-29192	RT#8, Box 570A-Charlotte, NC
Bunn, Mary Jameson	FR	HRT	1217 Kent	Te-47235	416 Falls, Rocky Mount, NC
Bunn, Joe Millard	GR	AGE			319 Stallings, Clayton, NC
Bunn, Shirley Anne	FR	SED	104 Logan Ct.	Te-31474	RT#4, Louisville, NC
Burgess, Charles Stewart	JR	CE	120 Ashe		19 Oak Dr. Havelock, NC
Burgess, Jackie	SR	IRR	264, Vetville	Te-40403	Huntersville, NC
Burgess, Marshall S. Jr.					419 Hardin, Raleigh, NC
Burgess, Richard Hunt	JO	NE	Owen	Te-29164	55 N.Y. Ave, Dumont, NJ
Burgess, Ted Gaskin	JR	ME	Alexander		RT#1, Oakboro, NC
Burkhead, Charles E.	JR	LA	124 St. Mary		147 Randolph, Asheboro, NC
Burleson, John E.	FR	CE	Owen		Box 13, Barnesville, NC
Burns, Howard F.	SO	IA		Te-33092	117 E. Whitaker, Raleigh, NC
Burns, John James	SO	WCM	Tucker		243 Mayda, Rosedale, NY
Burns, John Steele H.	JR	CE	2209 Hope	Te-43244	272 Lake Ave, Newton-Highlands, Mass.
Burns, Robert Paschall Jr.	FR	AGC		Te-28683	113 N. Wilmington, Raleigh, NC
Burns, Robert Randolph	FR	AG	Owen		McKnight, Belmont, NC
Burton, James Leo Jr.	GR	CE	Bagwell	Te-49151	123 Jackson, Roanoke Rapids, NC
Burts, Watson Lee	JO	EE	1500 Benehan		Altamont Rd, Greenville, SC
Buscio, Joseph Richard	FR	EE	Becton		RT#1, Box 100, Roanoke Rapids, NC
Bush, Harold Gene	JO	ME	Watauga	Te-29112	RT#1, New London, NC
Bush, William Horace	FR	CAE	Owen	Te-29113	1726 Green, Charlotte, NC
Busick, J.W.	FR	ARD	Tucker		RT#1, Elon College, NC
Butler, Frederick E.	FR	EE	Y.M.C.A.		2001 Plaza, W. Wilmington, NC
Butler, Robert Bion	JR	ME	Welch	Te-29119	161 Bear Ridge, Pleasantville, NY
Burris, Joseph Wayne	FR	PMW	1710 Hillsboro	Te-2001	RT#4, Lincolnton, NC
Burton, Melvin F.	JR	WNC	Gold		RT#3, Tunelo, Miss.
Burton, Sherrill P.	FR	CEC	222 Hillcrest	Te-21453	111 W. Greenwood, Durham, NC
Burk, Tommie Gene	FR	CE	1510 Simpkins		1510 Simpkins, Raleigh, NC
Burke, Guy Walton	FR	MA	2209 Hope	Te-43096	RFD#4, Taylorsville, NC
Burnette, Donald Eugene	JO	NE	Box 638, Cary, NC	Ho-77952	660 Lakeshore, Asheville, NC
Burgess, Charles Y.	SO	PBT	100 Woodburn Rd.	Te-21701	RT#1, Peach Street, NC
Burns, Cristel L.	GR		519 Gardner	Te-22189	Siler City, NC
Butler, Gordon Lee	FR	PMW	Watauga		Box 119, Andrews, NC
Butler, Patrick Colin	FR	AG	1004 Nichols Dr.	Te-20114	Tela S. H. Co. La Lima, Honduras
Butts, George Wm. Jr.	FR	IA	Becton		1907 Grove, Greensboro, NC
Butzbach, Joseph J.	FR	ME	Tucker		Westover Dr., Winston-Salem, NC
Buxton, Kenneth Shearin	FR	CHS	Bagwell	Te-29372	802 Henry, Roanoke Rapids, NC
Buynitsky, Richard S.	FR	ME	Turlington	Te-49172	414 S. Main St., Washington, NC
Byram, James M. Jr.	FR	ME	Box N, Belmont	Te-49913	110 Chamberslain, Wake Gr., NC
Byrd, Harry Floyd	FR	EE		Te-29115	RT#4, Asheville, NC
Byrd, James Harmon	FR	CE	Tucker	Te-29115	RT#4, Mt. Olive, NC
Byrd, James William	FR	EPY		Te-29297	339 Aycock, Concord, NC
Byrd, Joe Lee	JO	ME	Turlington		RFD#1, Garner, NC
Byrd, Medwick Vaughn	JO	ME			RT#1, Ramseur, NC
Byrd, Samuel Ellis	FR	AG	Bagwell		Box 3, 2nd, Albemarle, NC
Byro, Walter Keith	FR	CEM	Becton		RT#2, High Point, NC
Byerly, Richard Dale	SO	FOR	Owen		Box 945 Black Mountain, NC
Byron, Charles S.	FR	IRR	3418 Churchill		Greensboro, NC
Byrum, Robert L. Jr.	FR	ME	Bagwell		

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Cabe, Herschel H.	JR	PPT	Pine Lake Ct.		RT#1, Sylva, NC
Cackovic, Franklin L.	SO	IRR	Turlington	Te-29297	528 S.2nd. Steelton,Pa.
Caddell, Bivins Larry	FR	MEA	Tucker	Te-29312	1842 Plaza,Charlotte,NC
Caddell, Jimmy Stephen	SR	SEC	2511 Clark	Te-20268	211 Bracken,Sanford,NC
*Cady, Foster Bernard Jr.			3006 Mayview		Box 1453,Middletown,NY
Cagle, Walter Cornelius	SR	IE			RT#4,Box 468,Greensboro,NC
Calson, Cecil Grant	FR	EE	Tucker		507 W.Crawford,Mehane,NC
Caldwell, Dutch Jones	FR	EE			Glascok,Raleigh,NC
Caldwell, James Elam Jr.	FR	NE	Tucker	Te-29387	Box 459 RT#10,Charlotte,NC
Caldwell, Shakespear H.Jr.	FR	E	Bagwell	Te-29131	443 Roanoke, Roanoke Rapids,NC
Caldwell, Wm. Edward Jr.	JR	IE	Berry		Wrightsville Beach,NC
Caldwell, Wm. D. Jr.	SO	MEA	Owen		Box 127, Clyde,NC
Callies, George Albert	SR	ABC	216 Hawthorne	Te-29836	912 Sherman,Thornwood,NY
Calloway, Coy Roger	FR	ME	Owen	Te-49836	Clyde,NC
Calton, Wilburn Clyde Jr.	JR	IE		Te-28380	3205 Clark,Raleigh,NC
Campbell, Charles Lee Jr.			Becton		RT#1, Clarkton,NC
*Campbell, Donald B. Jr.	FR	EE			104 Seawell, Raleigh,NC
*Campbell, James Morgan	SO	ME	3821 Western Blvd.		Elizabethtown,NC
Campbell, James D. Jr.	SO	IA	Turlington		Box 215, Caroleen,NC
*Campbell, James Robert	FR	CE	1508 Frank St.		205 11th,NW,Hickory,NC
*Campbell, James Thomas					2268# The Circle,Raleigh,NC
*Campbell, John Thomas Jr.					114 Faircloth,Raleigh,NC
*Campbell, Roy Howard Jr.	JR	ME	3404 Ruffin	Te-29912	422 N. Boundary,Salisbury,NC
Campbell, Rex C.	SO	EE	Alexander	Te-29257	RT#4,Box 115,Statesville,NC
Campbell, Wm. Donaldson	SO	CE	Alexander	Te-29257	2314 Charlotte Dr.Charlotte,NC
*Campbell, Wm. F.			4201 Western Blvd.		RT#2, Denbigh, Va.
*Campbell, Wm. Vernon	SR	ENT	UK29,Vetville	Te-34364	305 Dixie Dr.Norfolk,Va.
Cameron, Leon Edward	FR	ME	Berry	Te-29350	RT#1, Cameron, NC
Cameron, Neill Wm.	SO	DM	Berry	Te-29350	RT#1,Box 116,Cameron,NC
*Cameron, Robert Bruce	FR	AG	624 N. East		RT#1, Sanford,NC
Canada, Charles Wm.	FR	EE	Syme	Te-29150	RFD#1,Box 104, Guilford,NC
Canady, Donald R.	SO	EE	8 N. Bloodworth		330 E.5th. Washington,NC
Cannady, Curtis Paul	SO	ME	Owen	Te-29115	414 S. Washington,Shelby,NC
Cannady, Wm. Hockaday Jr.	FR	MEA	Tucker	Te-29312	RT#1, Kittrell,NC
Cansler, Jor Carr	FR	AG	Stadium	Te-49803	RT#1 Troutman,NC
Cantrell, Harley Furman	FR	AG	Bagwell	Te-29412	448 Hebron, Hendersonville,NC
*Capel, Arron Willia	SO	TX	Alexander		Troy, NC
Capell, Ernest Paul	SO	FOR	120 Woodburn Rd.	Te-23701	Box 204,Pisazh Forest,NC
Capps, Anthony S.	FR	PRE.VET	Bagwell	Te-49151	RT#3, Smithfield,NC
Capps, Arnold Ray	SR	CE	Watauga		RT#5, Hendersonville,NC
Capps, Claude Noble	FR	EE	Bagwell	Te-49151	RT#3, Smithfield,NC
Capps, Elmer Eugene	JR	AED	Owen	Te-29115	Selma, NC
Capps, Jack Elias	JR	IE			324 Charlotte, Sanford,NC
Capps, Julian McE.	JR	CE	Turlington	Te-49279	RT#4, Henderson, NC
Capps, Weldon Clinton	SO	FOR	Bagwell		Arcola, NC
Capps, Wm. Edward	FR	AG	Syme	Te-29222	Box 29, Balfour,NC
*Cardell, Max Lee	JR	ME	Raleigh,N.C.		Baldwin Ave.,Marion,NC
Carey, Donald Royal	JR	TX	3414 Hillsboro	Te-34898	68 Shenandoah, Warwick,RI.
Carzill, Jann Boyce	SO	IA	20 Logan Ct.		Box 348 Cliffside,NC
Carland, Jennings Jr.	SR	AG	2718 Clark	Te-26451	RFD#1, Fletcher,NC
Carlson, Robert Henry	SO	ME	Tucker		84 E. 200th. Cleveland,O.
Carlton, John Phillips	FR	AGC	Turlington	Te-29192	Drawer 297,Pinetops,NC
Carlyle, Jack Wayne	SA	CHE	Welch	Te-29119	RT#1,Box 55, Holly Ridge,NC
Carlyle, Joseph Ray	FR	DM	Owen		RT#2, Box 707, Kinston,NC
*Carmichael, David Lee	SO	EE	1508 Frank	Te-49510	RT#1, High Point,NC
*Carnes, Roy Wiggins	SR	ME	3103 Douglas	Te-32180	3103 Douglas, Raleigh,NC
*Carnes, Wm. Capers Jr.	FR	WDM	26F,Vetville		200 Madison, Hamlet,NC
Carpenter, James R.	SO	CE	Becton	Te-29334	822 Kings Rd. Shelby,NC
*Carpenter, John Alton Jr.	SR	AG	Apt.W-1,County Club		Cherryville,NC
*Carpenter, Lester Atlas			7-B,Vetville		RT#1, Rockingham,NC
Carpenter, Robert Rex	SR	SEC	Syme	Te-29150	Peachland,NC
Carpenter, Thomas Earl	JR	IA	Watauga	Te-29447	RT#4, Albemarle, NC
Carraway, Edward Earl	SO	NE	Becton		Newport,NC
Carrigan, Wm. Chester	FR	FOR	Becton	Te-29372	RT#1, China Grove,NC
Carriker, Terry Wayne	FR	S	Tucker	Te-29323	447 Brent,Winston-Salem,NC
Carroll, Daniel Wilson	FR	AGC	Owen	Te-29142	RT#1, Durham,NC
Carroll, Harvey Clark Jr.	FR	MEA	2209 1/2 Hope	Te-43096	Rollins Ave.,Hamlet,NC
Carroll, James Charles	SO	EE	Owen		101 Chestnut, Mt. Olive,NC
Carroll, Mason Lindsey	JR	CE	1710 Hillsboro	Te-42001	Box 707,Shelby,NC
Carroll, Rooney Wilson	JR	NE	2512 Clark	Te-48941	Newport News, Va.
Carruthers, Woodrow W. Jr.	FR	ME	Syme	Te-49805	806 Cypress, Greensboro,NC
Carson, Edward	FR	EE			8 Dare Terrace,Raleigh,NC
*Carson, Hugh Clarence	JR	IE	28F,Vetville		Danville, Va.
Carson, Franklin B.	SO	IE	Bagwell	Te-29131	22 Stephen, Pleasantville,NY
Carter, Benjamin F.	JR	ME	Syme		Alexander, NC
Carter, Charles David	FR	FOR	Owen	Te-29142	1923 Darnell,Kingsport,Tenn.
Carter, Charles Mck.	FR	FMK	2405 Clark	Te-26543	P.O. Box 713, Morganton,NC
*Carter, Glenn Edward	SR	TX	2402 Clark	Te-38035	211 9th. E. Rockingham,NC
*Carter, Harold B. Jr.	JR	EE	37A,Vetville	Te-48941	2209 Kenmore, Charlotte,NC
*Carter, Henry Francis Jr.	SR	AG	Owen	Te-29410	Box 27, Maxton,NC
*Carter, James S. Jr.	JR	EE	E-2B,Shelton Apts.	Te-44508	Box 687 Battleboro,NC
Carter, John Brooks	SO	ME	Syme	Te-29288	RT#3, Canton,NC
Carter, Larry Lee	SO	ME	2512 Clark	Te-24843	2900 Jefferson,Winston-Salem,NC
*Casey, Gary Jackson			29E,Vetville		Dudley,NC
Cash, Lee Wiley	JR	AGC	Berry	Te-29363	RT#1, Shelby,NC
Cashatt, Everett D.	FR	WDM	Owen	Te-29437	Draper Rd.,Spray,NC
Cashion, Phillip D.			Alexander		RT#1, Mooresville,NC
Cashion, Wm. Brevard	FR	CHE	2512 Clark	Te-24843	P.O. Box 768,Hickory,NC
Cashwell, Richard Johnson	JR	NE	Stadium	Te-29803	305 W.19th. Lumberton,NC
Cashwell, Russell G. Jr.	SR	EE	Stadium	Te-49803	305 W.19th. Lumberton,NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Cassels, Ovid P. Jr.	FR	CE	Tucker	Te-49739	733 IdealWay,Charlotte,NC
Cassuto, Albert	SR	TX	304 East Park	Te-27638	3016 Ave I, Brooklyn,NY
Casteen, Adrian R.	SR	IRR	Tucker	Te-29388	107 S.16th.Wilmington,NC
Casteen, Daniel	FR	IRR	Tucker		107 S. 16th. Wilmington,NC
*Castleberry, Billy M.	JR	IRR			402 St. Mary, Raleigh,NC
Cates, Charles Hugh	CR	CE	Owen	Te-29437	LakeView Dr.Henderson,NC
Cathey, Thomas Robert	FR	EE	Bagwell	Te-49151	19 Holly,Havelock,NC
*Caulbe, Richard Adrian	SR	EE	325,Vetville	Te-44827	303 W.Henderson,Salisbury,NC
Caudell, Charles Edward	SR	AGC	2601 Clark	Te-28631	Blendale Springs,NC
Caudle, George Everett	SR	AGE		Te-49803	RT#1, Richfield, W.C.
Caudle, Johnny Allen	FR	CHE	Tucker	Te-49739	118 Hillside,Lenoir,NC
Caudle, Sam Jay	JR	IE	Owen		RT#2, Winston-Salem,NC
Caune, Janis Z.	SO	ARC	20 Logan St.	Te-26219	1030 E.Main,Washington,NC
*Coveness, Charles Gerald	FR	IRR	2703 Bedford	Te-31371	2703 Bedford,Raleigh,NC
*Caviness, Dewey Lee Jr.	JR	HAC	1508 Frank St.	Te-29110	1103 Sunset Ext,Ashboro,NC
Caviness, Robert Lee Jr.	SO	CEC	2404 White Oak	Te-32371	2404 White Oak Dr.,Raleigh,NC
*Caviness, Wm. Branson Jr.	SO	HAC		Te-48690	109 N. Boylan,Raleigh,NC
Cell, Howard Robert	SO	ABC			3114 Davis, Raleigh,NC
Ceren, Victor		FOR	Watauga	Te-24997	20 Mott Place,ParRockAway,NY
Cha, Woo Yong	JR	TC	Alexander		Seoul, Korea
Chagnon, Robert D.	SO	ARC	1509 Hillsboro		3502 Kirby Dr.,Greensboro,NC
Chalk, Harvey F.	FR	AG	412 N. Wilmington	Te-2223	1741, Neaus,NC
Chalkley, Charles E.	FR	PE	Alexander		5118 N. Carlyn Spring, Arlington,Va.
Chalmers, Richard K.	FR	ARC	3414 Hillsboro		213 Wellington,Buffalo,NY
Chambers, Charles Delain	JR	ACE	2226 Hillsboro	Te-31140	RT#1, Bryson City,NC
*Chambers, Charles Frank	JR	CE	3201 Ruffin	Te-30250	303 E. E. Kannapolis,NC
*Chambers, Galen E.	FR	TA	Alexander		RFD#1, Draper,NC
Chambers, James M. Jr.	SO	TA		Te-42674	2507 St. Mary,Raleigh,NC
Champion, James Earl	SO	EE			2711 Barmettler,Raleigh,NC
Champion, Roy Linsford	FR	NE	Turlington	Te-29192	Box 1330,Wilson,NC
Chandler, Donald Reed	JR	ARC	Gyme		309 BonAir, Durham,NC
*Chandler, Jack Leonard	JR	EE		Te-39505	5-C,Vetville,NC
Chandige, Herman Robert	SO	AI	Bagwell	Te-29111	304 Mecksville,Salisbury,NC
Chann, Earl Kai	SR	ARC	204 N. Edinton	Te-40239	267 Bravoot, Kow Garden,NY
*Chaplin, James Ferris	GR	EC	UK 31,Vetville		901 Edison,Florence,S.C.
*Chaplin, Robert Lee	GR	EPY			Shelton Apt.H-3,Raleigh,NC
Chapman, Lee LeBrun	JR	EE	Owen		2325 Rosewood,Winston-Salem,NC
Chapman, Ned Oliver	JR	CE	302 Fourth	Te-29159	RT#6,Box730,Morganton,NC
Chappell, Duncan Dale	JR	TX	Turlington	Te-49279	Candor,NC
Chappell, Jesse Jr.	JR	TX		Te-27063	307 Whitaker Mill,Raleigh,NC
*Chappell, Joe S.	JR	AGC			#41, Varina,N.C.
Chappell, Nereus Wm. Jr.	FR	ME	1103. Boylan		Belvidere,NC
Chappell, Tilson Edward	JR	ME	1105. Boylan	Te-76*22	#71, Box 11,Belvidere,NC
Charles, Ernest George	JR	IE			7 South West St.,Raleigh,NC
Chatham, James Owen	SO	EE	129 Hillcrest		2362 Elisabeth,Winston-Salem,NC
*Cheatham, James Hamlin Jr.	SR	HAC		Te-32962	RT#1, Cary,NC
Cheek, Gerald Wallace	SO	HAC	Owen		3615 Rogers,Charlotte,NC
Cheek, Walter David	FR	ME	Tucker		1711 5th. Burlington,NC
Chen, Chiu-Chung	FR	ABC	Gold		P.O.Box2273, Manila, P.I.
Chen, Paul Pao-ho	FR	EE	Gold	Te-29263	Tienstin,China
*Chenise, George Maurice	GR	PPH	UK43,Vetville		436 S.Pine, Centrailla, Ill.
*Cherkas, Harry F.	TX		19C,Vetville	Te-20697	439 Kingsbury, Oxford,NC
Cherry, James Stewart					1522 Hanover,Raleigh,NC
Chesson, Roger Temple	FR	E	Tucker	Te-29387	Roper, NC
Chesson, Sherwood W.	JR	AGE	Stadium		RT#1,Box 54, Roper,NC
Chiles, Robert M.	FR	ME	Bagwell	Te-49151	Carbonton Rd,Sanford,NC
Chilla, John Nickolas	FR	IRR	Turlington	Te-49279	108 Bradford,Downtington,Pa.
Choate, David Page	JR	AG	Turlington	Te-29297	Box 23, Wilkesboro,NC
Choate, Ira B.	JR	MIM	Alexander	Te-49746	RFD#1, Pinelevel,NC
*Chon, Wan Yong	GR	NE	Gold		Seoul, Korea
*Christie, James Henry	SO	HAC		Te-47949	7E,Vetville,Raleigh,NC
Christopher, Donald Wayne	FR	MEA	Tucker	Te-4964	404 Berry,Williamston,NC
*Christy, Richard J.	SO	IRR			1201 Hillsboro,Raleigh,NC
*Chumney, Waverly Thomas	GR	AGC		Te-48043	2355 McKullen Circle,Raleigh,NC
*Church, David Thompson	SR	TX	Owen	Te-29115	Box 127, Stuart, Va.
Church, Jerry Anderson	SO	NE	Owen	Te-29252	Box 855,Valdese,NC
Churchill, Billy R.	JR	ME	Owen		RFD#1, Winterville,NC
Cicero, Frank Robert	FR	DE	Tucker		2000 Hwy 248 Rd.,Somerville,NJ
Ciliberti, Uito	SR	PPT			Brasselynn, NY
Cilwick, Reginald Morgan	FR	EE	Berry	Te-29350	2841 Adams,Williamston,NC
Clapp, John G.	SO	AG	Turlington		#74, Box 463, Greensboro,NC
Clapp, Richard Edwin	SO	ME	Gyme		615 W. 3rd. Siler City,NC
Clardy, John Palmer	SO	PPT	Turlington	Te-49279	1219 W.Richmond,Georgetown,S.C.
*Clark, Douglas C.	SO	ME	287 W. Wilmington		2817 BonAir,Winston-Salem,NC
Clark, Jack Adams	FR	EE	Bagwell	Te-49151	701 N. Endora,Sanford,NC
Clark, John C.	FR	CE	Gyme	Te-29427	712 Athens,Fayetteville,NC
Clark, John Douglas	SO	CE	Tucker	Te-29151	RT#5,Box885,Charlotte,NC
Clark, Kenneth J.	SO	IRR	Bagwell	Te-29111	143-46, 56 Rd., Flushing,NY
Clark, Neohew Ying	SR	PPH		Te-21183	12 E. 49th.Savannah,Ga.
Clark, Paul Leonard			2202 Hillsboro	Te-40114	904 Florida, Greensboro,NC
*Clark, Robert Carroll	FR	ME	Owen		Ashville,NC
Clark, Robert Dixon	FR	CE	Bagwell	Te-29412	RT#2,Reaford,NC
Clark, Robert Woolald	SR	FC	Bagwell	Te-49215	Box 5, Everette,NC
Clark, Wesley Meriton	SO	CE	Stadium	Te-21722	412 Winona,Lumberton,NC
Clark, William Dawson	JR	EE	902 W. South		Oriental,NC
*Clarke, Donald Henry	SR	ME	88,Vetville	Te-48545	Box 4, Jrimiesland,NC
Clarke, Gary O.	JR	TX	Berry		Rt#4, Shelby,NC
Clarke, John Pope	JR	ME	Bagwell	Te-29412	Norlina,N.C.
Clarke, Robert Edward	SO	CEC	Tucker		4114 Green,Morganton,NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Clarke, Wyndham Lee					Box 4, Southern Pines, NC
*Clayton, Be nnie E. Jr.	SO	CEC	216 1/2 Park	Te-34987	216 1/2 Park, Raleigh, NC
Clayton, John Harry Jr.	SO	CEC	Becton	Te-29256	1912 Lyndhurst, Charlotte, NC
Clegg, Henry Clay Jr.	JR	CE	Pittsboro, N. .	Ki-24152	RT#1, Monroe, N.C.
Clement, Joseph Mason	SO	CE	119 Hawthorne	Te-22408	2107 Grace, New Bern, N.C.
Clement, Milton Virgil					901 W. Cemetery, Salisbury, NC
Clement, Richard Noel	FR	E	Tucker	Te-49739	RT#2, Lenoir, N.C.
Clement, Robert Lane	SO	CE	119 Hawthorne	Te-22408	2107 Grace, New Bern, NC
Clement, Walter F.	JR	AGY	Owen		Enfield, NC
Clements, Albert Frank	JR	GEE	2601 Clark	Te-28631	322 Spring, Hamlet, NC
Clements, Steven Lynn	JR	GS			401 Peartree, Raleigh, NC
Clemmer, Lewis Eugene	JR	MEA	2512 Clark	Te-24843	912 Gibbons, Gastonia, NC
Cleundenin, John Barnes	JR	EE	Alexander	Te-29349	106 Berkshire, Greensboro, NC
Clifford, Raymond Earl	SO	EE	Syme		2542 Kenmore, Charlotte, NC
Climo, Richard Wm.	JR	IRR	Berry		2534 B'Way, WY, 25, NY
Clinard, Frank Welch Jr.			2717 Clark Ave.		770 Roslyn, Winston-Salem, NC
Cline, Ambrose S.	SO	MEA			RT#2, Raleigh, NC
Cline, George Bennett, Jr.	SR	CE	15 Maiden Lane	Te-43374	405 Westover, Chapel Hill, NC
Cline, James Edward	FR	EE		Te-41791	RT#1, Cary, NC
Cline, Jess Donald	FR	EE	Becton	Te-29372	128 Oakwood Dr. Statesville, NC
Cline, Robert Clyde	SR	ME	2411 Anderson Dr.	Te-26730	2411 Anderson Dr., Raleigh, NC
Cline, Stamie Sherrill	FR	EE		Te-41791	RT#1, Cary, NC
Clippard, Carson Alexander	SO	CE	Barwell		322 S. Main, Raeford, NC
Clippard, James Henry Jr.	SO	GEE	Owen	Te-49836	1311 Greenwood Cliff, Charlotte, NC
Clodfelter, Bruce S. Jr.	SO	IA	1408 Hillsboro	Te-22262	704 Montlier, High Point, NC
*Cloer, David Leon	JR	ARC	30H, Vetville	Te-37663	301, 20th SE, Hickory, NC
Cloer, Ervin S.	FR	ME	Owen	Te-29437	RT#5, Box 17, Morgantown, NC
Clonte, Wallace Laxton	SO	ARC	Tucker		S. Sharon Rd., Lenoir, NC
Clontz, Wm. Ronald	FR	CE	Bagwell		Box 162, Taylorsville, NC
Claude, Lawrence Alvin	FR	EE	Tucker		3638 Park, Charlotte, NC
Coats, George Herman	JR	NE	Becton		315 Barbour, Clayton, NC
*Cobb, Edgar Reid	JR	NE		Te-36128	3027 Farrior Rd, Raleigh, NC
*Cobb, Melvin H. Jr.	FR	EE	Syme		RT#1, Box 144, Merry Hill, NC
Cobb, Otis Earl	SR	DM	Owen		RT#1, Reidsville, NC
Cobb, Roy Vernon		AG	Bagwell		RT#4, Windsor, NC
Cobb, Wm. Younts	SR	DM	Farm House Frat	Te-46094	3706 E. Bessemer, Greensboro, NC
*Coble, Howard Fred	JR	EE	RT#1, Cary, NC	Te-45070	RT#6, Box 18A, Burlington, NC
Coburn, Richard Ray	FR	EE	Becton	Te-29372	RT#1, Box 494, Roanoke Rapids, NC
Cochran, George Calvin	JR	TX	2514 Clark	Te-34522	4708 Brookwood, Youngstown, O.
Cochran, Jor B.	JR	CEC	Alexander		Southport, NC
Cochran, Wm. Earl Jr.	SR	CE	120 Woodburn Rd.	Te-23701	205 Academy St., Concord, NC
Cochrane, Joe Kenneth	JR	ME	Sigma Phi Epsilon	Te-24843	RT#2, Union Mills, NC
Cochrane, Julian Moore	FR	FOR	Tucker	Te-49739	RT#2, Candler, NC
Cochrane, Norman Thomas	FR	DEE	Bagwell	Te-49151	1209 Harding Pl., Charlotte, NC
Cocke, Wm. J.	SO	NE	Alexander	Te-29257	11 Buena Vista, Asheville, NC
Cockman, Arthur G.	FR	ME	Purges St.	Te-22178	RFD#3, Pittsboro, NC
Cockman, Benjamin B.	SO	ME	997 Harp Terrace		RT#3, Pittsboro, NC
Cockman, Russell P.	JR	SE	Furgis St.	Te-22172	RFD#3, Pittsboro, NC
*Cockrell, Henry H., Jr.	JR	SE	1027 Vance	Te-47078	1331 Mordecai, Raleigh, NC
*Cody, Max Robert	SR	AI	3821 Western Blvd.	Te-35446	RT#1, Box 623, Hickory, NC
Coffin, John Donald	FR	CE	Tucker		RT#1, Haw River, NC
*Coggin, Bill Ray	SR	TX	Berry	Te-25862	P.O. Box 774, Kannapolis, NC
Coggins, Eldridge Allen	JR	HAC	Welch	Te-29119	Bee Tree Rd. Swannanoa, NC
*Coggins, Garland Ray	SR	EE	24F, Vetville	Te-29290	500 Cox, Thomasville, NC
Coggins, Robert Vance	SO	EE	Turlington		Box 371 Swensonville, NC
*Cogswell, Arthur R. Jr.					RT#4, Raleigh, NC
*Cogswell, Betty E.					RT#4, Raleigh, NC
Cohn, Emil Jrd.	SR	FOR	130 Hawthorne	Te-47325	231 E. Sedgwick, Phila., Pa.
*Coker, Walter S. Jr.	SO	FOR	1508 Hillsboro	Te-26153	208 Vance, Roanoke Rapids, NC
Cole, Carl D.	JR	EE	Owen		RT#1, Kings Mtn., NC
Cole, Emmit F.	SO	MEA		Te-31767	1907A Alexander, Raleigh, NC
Cole, Robert Leon	FR	IA	Alexander		Middletown, O.
Cole, Toby Cecil	SR	EE	Syme	Te-29421	18 Finalae, Asheville, NC
Coleman, Alonzo B. Jr.	SO	ME	Tucker		RT#1, Hurdle Mills, NC
*Coleman, James O.	JR	AGE	Box 5633		148 Murdock, Asheville, NC
Coleman, Jerry Douglas	JR	ME	Tucker	Te-29323	3 Pinecrest, Wilmington, NC
Coley, John T. Jrd.	SO	AGE	Becton	Te-29334	RT#3, Rocky Mount, NC
*Coley, Samuel J.	PA	AGE	Becton	Te-29256	Box 24, Stem, NC
*Coley, Wm. Vernon Jr.	JR	EE	9D, Vetville	Te-45347	2119 Maits, Wilmington, NC
*Collin, George Wm.	JR	ARC	K-4, Raleigh Apts.	Te-24936	1733 Meadowbrook, Winston-Salem, NC
Collar, John Howard	JR	IA	Becton	Te-29372	460 Baird, Washington, Pa.
*Colley, John Leonard Jr.	SR	IE	118 E. Park		RT#3, Box 250, Wilmington, NC
*Collie, Jason T. Jr.	JR	IE	Buffaloe Trailer Pk.		Felham, NC
Collier, Arthur Gray Jr.	JR	AG	Becton		Eladenboro, NC
Collier, Curtis Edward	JR	CE		Te-40435	RT#3, Selma, NC
Collier, Shelton R.	FR	FOR	7 Enterprise	Te-30976	804 E. Dell, Norfolk, Va.
*Collier, Talmadge W.	FR	FOR	3207 Merriman		RFD#1, Wade, NC
Collier, Wm. A. Jr.	SO	ME	Owen	Te-49836	2319 Bay, Charlotte, NC
Collins, Bobby Carlton	FR	ME	Bagwell	Te-29412	RFD#1, Whiteville, NC
*Collins, Douglas B.					206 Colleton, Raleigh, NC
*Collins, John Marion	FR	FOR	1508 Frank		RT#1 Box 41, Elkin, NC
Collins, Preston Andrew	PA	EE	113 Alexander		P.O. Box 125, Maysville, NC
*Collins, Wm. Henry	JR	ME	Tucker	Te-29388	Nashville, NC
Colston, Harold Donald	JR	CE	222 Hillcrest	Te-23429	290 W. 111 Ave., Southern Pines, NC
Colton, George Marshall	JR	ME	Becton	Te-29256	904 Boylan, Raleigh, NC
*Coltrane, Robert Irvin	SO	AGE			Bolivia, NC
Comeau, Clifford M.	JR	CE	Syme	Te-29150	414 Perry, Garner, NC
*Compton, Wm. A.					904 Spring, Durham, NC
Compton, Julius T.	JR	ME	Alexander		

NAME	YR	SCHOOL	CAMPUS	ADDRESS	TELEPHONE	HOME ADDRESS
Conley, Donald Edgar	FR	EE	Owen	Te-29115	2309 E. 5th, Greenville, NC	
Conley, Wm. Ray	FR	E	Owen	Te-29464	Box 463, Marion, NC	
Connell, Eugene Douglas	BO	TX	Becton	Te-29334	802 Salisbury, Spencer, NC	
*Conover, Noran Robert	SR	WCM	504 1/2 N. Person	Te-29372	108 3rd, Atlantic Highlands, NJ	
Conrad, Arnold G.	FR	AC	Becton		RT#8, Winston-Salem, NC	
Conrad, Richard Dale	FW	ENG	Tucker		640 Glenwood, Charlotte, NC	
Conrad, Ronald Gray	WU	NE	Tucker		105 N. Marshall, Winston-Salem, NC	
Constantine, Randolph, Jr.	SO	NE	308 Horne	Te-27050	1407 Main, Tarboro, NC	
*Cook, Earl Ralph	FR	CE	Owen	Te-44105	A-6 Fincastle Apts, Raleigh, NC	
Cook, James Franklin	SR	ME	3205 Hillsboro	Te-36901	RT#3, Winston-Salem, NC	
Cook, Joseph Bennett	WU	AGE	Owen		Union Grove, NC	
*Cook, Robert Edward	GR	GN	2320 Clark	Te-24923	RT#3, Box 335, Mannington, W. Va.	
Cooke, Lawrence James Jr.	FR	CE	Owen	Te-49836	Elizabethtown, NC	
*Cooke, Robert Lee	SO	FOM	Turlington	Te-49279	127 Flint, Asheville, NC	
*Cooke, Robert Reid	SR	CHE	N-3B Cameron Ct. Apts.		801 Lee Street, Asheboro, NC	
Cooke, Roger Phillip	FR	ENG	Bagwell	Te-49151	RT#1, Box 224 Mt. Airy, NC	
Cooley, Austin C.	SO	CHE	Syme		Box 745, Black Mtn. NC	
Cooper, Jerry Willard	SO	FOR	Owen		58 Church St. Canton, NC	
Cooper, Wm. Edward Jr.	SR	IRR	3129 Stanhope	Te-29252	4205 Chamberlayne, Richmond Va.	
Copeland, Archie Wallace	SR	IRR	1720 Hillsboro	Te-20667	3129 Stanhope, Raleigh, NC	
Copeland, John Wesley			RT#1, Cary		103 W. Maynard, Durham, NC	
*Copeland, Wm. Latham			RT#1, Cary		RT#1, Pantego, NC	
Copenhaver, Howard W. Jr.	SP	EE	Tucker	Te-29387	103 S. Anderson, Morganton, NC	
Coram, Jerry G.	FR	CE	Alexander	Te-49746	East Bend, NC	
Corbett, James E. Jr.	JR	MED	308 Horne	Te-27050	905 Riverside, Elizabeth City, NC	
Corbett, John Allie 3rd.	SR	TX	Berry		519 Vance W. Wilson, NC	
*Corey, Hamilton Jr.	FR	EE		Te-29507	3214 Birnam Wood, Raleigh, NC	
Corkean, Terrell Wayne	FR	FOR	Tucker		RT#3, Box 1, Georgetown, S.C.	
Cornwell, James Howard	FR	ME	Owen		RT#2, Murphree, NC	
*Cornwell, Robert Jr.	FR	EE	288, Vetville	Te-29498	Box 533, Southern Pines, NC	
Corpening, Gay S.	SO	FOR	1213 1/2 Dixie Trail		Box 488 Tryon, NC	
Corriher, Nelson Clark	FR	EE	Becton	Te-29372	RFD#1, China Grove, NC	
Carson, Wilbur Leslie	SR	IE	1620 Hillsboro		617 W. 31, Richmond, Va.	
Costas, Gus Thomas	JR	EE	108 Fourth Dorm	Te-29159	3131 E. Market, Greensboro, NC	
Costin, John W.					103 N. Person, Raleigh, NC	
Costner, Larry Tom	SO	TX	Bagwell	Te-49151	Box 17, Casar, NC	
Coston, Benjamin Maynard	FR	AG	Owen	Te-29437	RT#1, Box 226, Hubert, NC	
Coston, Vernie Richard	SO	CEC	Syme		119E. Bayshore, Jacksonville, NC	
Cathran, Edward Harrison	GR	IRR		Te-27201	2225 Dixie Trail, Raleigh, NC	
Cotten, Leonard Wayne	JR	EE	Syme	Te-29288	Box 183, Pittsboro, NC	
Cotten, Roderick, L.	FR	EE	Owen		1620 Rhem, New Bern, NC	
*Cottingham, Bromo T. Jr.	SO	MEA			114 Chamberlain, Raleigh, NC	
*Cox, Dallas Bruce	SR	TX	311 Marsh	Te-48787	Box 87, Cordova, NC	
*Cox, David F.	GR	AI		Te-48532	419 B. Daniels, Raleigh, NC	
Cox, Donald Glenn	JR	ME	Syme	Te-29288	1107 W. Lenoir, Kinston, NC	
Cox, Graham S.	JR	AG	Bagwell		RFD#2, Richlands, NC	
*Cox, Haywood B.	SO	AI	Owen		RT#2, Richlands, NC	
*Cox, James A.	JR	IA			117 S. Watson, Hargett, N. Princes, NC	
Cox, James Foster	FR	CE	Syme		RT#1, Box 20, Goldsboro, NC	
Cox, John Edward	JR	CE	124 Hawthorne	Te-21183	Box 41, Brevard, NC	
Cox, Larry Holt	SO	IRR	Becton		RT#1, Box 41, Asheville, NC	
Cox, Lawrence H.	FR	MEA	Tucker	Te-29372	RT#1, Asheville, NC	
Cox, Wm. Frederick	FR	ME	Syme		Trifton, NC	
*Cox, William Henry	FR	CEC	211 Park		207 Peacock, Lexington, NC	
Coulter, Lonnie B.	SO	ME	Becton	Te-29334	139 Ridge, Salisbury, NC	
Coutouzis, Wm Emmanuel	FR	ME	Tucker	Te-29323	2528 McNeill, Fayetteville, NC	
Covington, John Clayton	JR	AG	228 Purches	Te-27474	324 Jackson, Roanoke Rapids, NC	
Coward, John W. Jr.	SR	CHE	Alexander	Te-29349	101 Dundee, Windsor, NC	
Cowans, Kenneth Wesley	SR	MEA	Tucker		RT#1, Box 20, Goldsboro, NC	
*Coward, Bill Martin	FR	IE	115 Hawthorne	Te-29349	Box 322A, Liberty, NC	
Coward, Wm. Reginald	FR	EE	Alexander	Te-29186	214 N. Torrence, Charlotte, NC	
Cowardin, Robert Lewis	FR	ME	Tucker	Te-49863	Rowland, NC	
Cozart, Ernest B.	JR	EE	Owen		1411 West, Raleigh, NC	
*Crabtree, Bobby Wayne	FR	CE	Syme		RFD#1, Carthage, NC	
Crabtree, Ralph Jackson	FR	FOR			808 E. Gardner, Raleigh, NC	
Craddock, Dean Price	FR	ARC	Owen	Te-21408	813 Cox, Thomasville, NC	
Cranford, Edgar Allen	FR	ATY	Owen		2550 Glenwood, Apr. C. Raleigh, NC	
*Cranfill, Henry David	FR	EE		Te-47792	808 Shepherd, Durham, NC	
*Craig, Charles S.					711 Main, Ramseur, NC	
*Craven, Alton W. Jr.	SR	TX	419 Guilford	Te-32474	RT#8, Lexington, NC	
*Craver, Billy Hoyle	SR	CEC	1508 Frank		120L Virginia, Kinston, NC	
Crawford, Clifford R.	SO	TX	Syme		Chadbourne, NC	
*Crawford, Frank Alderman	FR	CE	333, Vetville	Te-29146	Jacksonville, Fla.	
Crawley, James R.	FR	FOR	P.O. Box 1411	Te-29146	RT#1, Littleton, NC	
Crawley, Marion P. 3rd.	FR	FOR	Owen		244 W. 31, Richmond, Va.	
*Creazy, Wm. Kenneth	SR	MEA	310 Chamberlain		304 Cliff, NY	
Creazzo, Joseph	JR	FMV	Alexander		121 Jackson, Garner, NC	
Crech, Joseph Odell					RT#1, Durham, NC	
Crech, Kenneth Ray					Mt. Airy, NC	
*Cread, Hugh Kalen	SO	CE	Wilmet Ant.	Te-29367	Southern Pines, NC	
Cread, Wilbur Ray	FR	TX	Tucker		3214 N. Main, Wilson, NC	
Creekmor, James H. Jr.	JR	TX	Berry		RT#1, Durham, NC	
Cress, Lewis Walker	SR	AED	Owen	Te-49342	P.O. Box 124, Laurel Hill, NC	
Cribb, Henry L.	SO	TX	Owen	Te-29110	420 S. Ponder, Southern Pines, NC	
Criner, Larry Sanford	FR	IE	Turlington		RT#1, Durham, NC	
*Crisp, Helen E.					1120 Garner Rd., Raleigh, NC	
Crockett, Manuel H. Jr.	FR	ME	Bagwell	Te-49151	1101 Aylesford, Charlotte, NC	
Crockford, Wm. Morrison	JR	IF	Alma	Te-29268	480 Nevada Ave, Concord, Calif.	
Croft, Frank W.						

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Gronin, Raymond J.	FR	MEA	Alexander	Te-29349	1600 Medford, Charlotte, NC
Groom, Wiley B.	JR	NE	Berry	Te-29363	22 Henrietta, Asheville, NC
Groom, Bobby Harold	FR	CE	Becton	Te-29372	RT#4, Zebulon, NC
*Groom, Hardy	SR	IRR	Bagwell	Te-49151	Hopewell, Va.
Groom, Herman Green Jr.	SR	AED	Aloha Gamma	Te-34545	RT#1, Ayden, NC
Gross, Dann H.	SO	CHE	Syme	Te-29222	Waynesville, NC
Gross, Frank Tucker	FR	ME	Alexander	Te-29257	Sunbury, NC
Gross, Lawrence C.2nd.	FR	ME	Syme	Te-49801	Olivia, NC
Crosby, Roddie Lee	FR	ME		Te-21369	2770 Circle Dr., Raleigh, NC
Crouch, Olin Kent	FR	E	Becton	Te-29332	Winston-Salem, NC
*Crouse, V. Ray					1612 Oberlin Rd., Raleigh, NC
Crow, Ronald Warren	SR	TX	2702 Hillsboro	Te-21835	Box 162, Erlanger, Lexington, NC
*Crown, Vincent W.					311 W. Mulberry, Goldsboro, NC
Crowder James U. Jr.	FR	ME	Owen		34 Highland, Asheville, NC
Crowder, Julius P.	FR	CE	Bagwell	Te-49151	78 Franklin, Concord, NC
*Crown, Jimmie Lee	FR	AC	203 Chamberlain	Te-32181	Beaufort, NC
Crown, Wm. B.	FR	E	Owen	Te-29464	RT#2, Box 43, Denton, NC
*Crowley, John	SO	EE	204 Watauga		508 S. 3rd, Wilmington, NC
Cruea, Ronald DeWayne	SO	FOR	130 Hawthorne	Te-47325	RR#1, Cedarville, O.
Crump, Gwyn Norman	SO	EE	8 Ferndale Lane	Te-217755	2127 5th, NW, Hickory, NC
*Crump, Kelly R.	SO	EE	1510 Timokins	Te-37680	RT#4, Lenoir, NC
*Crumpler, Herman Clifton	JR	ME	Owen	Te-29115	33E-Vetville, Raleigh, NC
Crumpler, Marshall W. Jr.	JR	PPT		Te-29290	RT#7, Box 186, Fayetteville, NC
*Crumpler, Richard Alton	SR	ME	2226 Hillsboro		23F, Vetville, Raleigh, NC
Crumpler Willis I. Jr.	SO	ME	1710 Hillsboro		Box 36, Watha, NC
Crutchfield, James E.	FR	EE			120 McAden, Graham, NC
*Cruse, Robert Dwight	FR	EE			232 Glascock, Raleigh, NC
Cude, Edwin Stanton	FR	ARC	Owen	Te-29252	18801 Club Rd, Charlotte, NC
Cude, Reginald H.	JR	DN	Welch		1205 Spring Garden, Goldsboro, NC
Cuts, Charles Kenneth	FR	CE	Alexander		Stover, NC
Culbertson, Samuel Franklin	FR	CHE	Syme	Te-29222	RT#1, Box 303, Siler City, NC
Culbreth, John Kenneth	FR	EE	Tucker		1 Green, Woodruff, S.C.
*Culbreth, Thomas D.	FR	MTE	2508 1/2 Vanderbilt	Te-22321	413 S.6th, Wilmington, NC
Culbreth, Wm. K. Jr.	FR	ME	Owen	Te-29464	RT#4, Lumberton, NC
Culler, Josie Ellen	FR	NE	1403 Wake Forest Rd.	Te-47694	RT#1, Box 168, Zionville, NC
Culliphen, Louis Edwin	JR	AC	Alexander		Knotts Island, NC
Cullis, Robert Nichols	SO	EE	Tucker	Te-49739	P.O. Box 384, Southport, NC
Cullom, Finn Bowen	FR	EE	Tucker		910 Anderson, Wilson, NC
Cullom, Frederick Autry	FR	ME	Owen	Te-29252	335 Williams, Roanoke Rapids, NC
Cupl, James Edward Jr.	FR	ARC	Tucker		2224 Crescent, Charlotte, NC
Culp, Ronald Kendall	SO	ME	Alexander		Box 775, Badin, NC
Cummings, John Michael	FR	CE	Syme	Te-29288	142 N. Fairview, Tarboro, NC
*Cundiff, Dallas Earl	SO	ARC	1718 Hillsboro		Box 11, Hanes, NC
Cunningham, Arnold May	FR	CE	21 Enterprise	Te-27840	RT#1, Walstonburg, NC
*Curbelo, Manuel Jose	FR	EE	Syme		610 Glenwood, Raleigh, NC
Curlee, Bruce Alfred	FR	EE	Syme	Te-29288	503 Concord, Albemarle, NC
Curlee, Earnest	FR	TX	Alexander	Te-29349	RT#4, Matthews, NC
Curlee, Everett Berry	JR	CEC	1408 Hillsboro	Te-22262	RT#4, Matthews, NC
Curlee, Richard Everette	SO	IE		Te-33164	1113 Cordcael, Raleigh, NC
Currie, Avery Madison			Owen		Billmore, Rockingham, NC
Curry, Morris Ray	JR	CHE	1408 Hillsboro	Te-22262	2610 Pine Lake, Greensboro, NC
*Currie Thomas Davis	FR	EE	2401 Lake Drive	Te-32248	RT#1, Red Springs, NC
Currie, Wayland Delano	SR	AED	2513 Clark		RT#3, Whiteville, NC
Curtin, Thomas Paul	SO	CHE	2405 Clark	Te-26543	Quarles 54, Ft. Bragg, N.C.
Cushman, Robert M.	SO	TX	Bagwell	Te-29131	Valley Rd., Southern Pines, NC
Cybrvnski, Robert Carl	FR	IA	Berry		506 Chancery, Greensboro, NC
Czech, John Joseph	FR	ME	Bagwell		28 Richard, Perth Amboy, NJ
Daabis, Gala Abdel-Hamid	TX		2617 VanDyke	Te-34169	Damanhour, Egypt
*Daber, Kenneth Myron	JR	ME	17C, Vetville	Te-45075	412 Cherry St. Mt. Airy, NC
Dail, Alton Earl	SR	OIG	Gold		RT#1, Mt. Olive, NC
Dail, James Elmer	JR	ME	2226 Hillsboro		709 W3rd, Siler City, NC
*Dail, Joseph Darrell	JR	AGC	807 Gardner	Te-24740	807 Gardner, Raleigh, NC
Dail, Wm. Roland	FR	CEC	Tucker		167 N. Pineview, Goldsboro, NC
Dalby, James Frederick	SR	EM	Watauga 204		603 Debre, Norfolk, Va.
D'Angelo, Albert D.	FR	IA			Crabtree, Pa.
*Daniels, Charles Edgar	FR	CHE	5409 Center		1705 Stroud, Kingston, NC
*Daniel, Donald Ray	FR	EE	Alexander		Box 40 Kingston, Rocky Mount, NC
Daniels, John Hall	JR	AI	Tucker		RT#1, Wilson, NC
Daniels, Phillip Wm.	FR	EE	Becton	Te-29261	202 W. Vernon, Kinston, NC
Daniel, Robert Earl	FR	CEC	Berry	Te-29363	3435 Bradley, Raleigh, NC
Daniels, Wm. Lee Jr.	SO	EE	Owen		RT#3, Durham, NC
*David, Gloria June	FR	CH		Ho-72042	203 N. West, Cary, NC
Daoud, Allilias A-Karim	SR	ENT			Samarra, Iraq
Daoud, Hanna Nouri	SR	HRT	130 Woodburn		Nosul, Iraq
Daski, John Harry	JR	IRR	Bagwell		Fayetteville, NC
Daughtridge, Jimmy T.	JR	MEA	Becton	Te-29261	RT#4, Rocky Mount, NC
Daughtry, Dailie Preston	FR	AC	Tucker		RPD#1, Faison, NC
Daughtry, James Wm.	GR	NE	922 W. Johnson	Te-22788	408S. Main, Statesboro, NC
Daughtry, Jimmie S.	FR	NE	Owen	Te-29410	RPD#2, Smithfield, NC
Daughtay, Miriam				Te-32482	P2, Country Club Homes, Raleigh, NC
Daughety, Richard Weaver	FR	FOR	Tucker	Te-49835	Lexington, NC
Daughtridge, George Edward	FR	ME	Bagwell	Te-29412	RT#4, Rocky Mount, NC
*Davenport, Carlton A. Jr.	SR	CE	2426 Greenway	Te-39839	Front, Hertford, NC
Davenport, Cedrick Miller	FR	CE	Tucker	Te-29387	RT#2, Box 49, Roper, NC
Davenport, Charles M.	FR	EE	Owen		Creswell, NC
David, James Edward	FR	AEE	Tucker		RT#2, Snow Hill, NC
*Davidson, Charles D.	PR	ARC			Maysville, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Davidson, Elmer Hayes	FR	FOR	Alexander		RFQ#1, Tyner, NC.
Davis, Aubrey Thomas	SO	CHE	2804 Hillsboro	Te-22654	Box 217, Hertford, NC
*Davis, Bennie Burton	SR	TX			200, Vetsville, Raleigh, NC
Davis, Billy Bryson	JH	EE	Owen		RFQ#1, Sylva, NC
Davis, Carlton Earl	SO	AG	Alpha Gamma Rho	Te-26451	Box 231, Rt. #1, Goldsboro, NC
Davis, Charles Richard	SO	AGE	2326 Hillsboro	Te-31140	RT#2, Chandler, NC
*Davis, Charles Spencer	SR	CEG	436 Wayne		RT#7, Box 631, Charlotte, NC
Davis, Clyde Wilson Jr.	FR	E	Tucker		RFQ#1, Pantego, NC
Davis, Conrad Alvin	SR	ME	Tucker		115 Elm, Leaksville, NC
Davis Daniel Shaw	FR	CE	Tucker	Te-29388	308 Thomson, Monroe, NC
Davis, David Franklin	SO	MEA	1201 Brookside	Te-44020	707 Aycock, Wilson, NC
Davis, Donald	SO	AGE	Syme		RT#1, The Oaks, High Point, NC
Davis, Don Maynard	SO	AG	Owen		Blacksburg, SC
Davis E. Felton	JR	AI	Dairy Farm	Te-45030	RT#1, Goldsboro, NC
Davis, Franklin W.	FR	FOR	Alexander	Te-47746	Clay St. Franklin, Va.
Davis, Floyd M.	SO	TX	920 Marilyn Dr.	Te-44762	920 Marilyn Dr., Raleigh, NC
*Davis, Fred Mac	FR	CE			2802 O'Berry, Raleigh, NC
Davis, Gene Carroll	SR	IE	Welch	Te-29119	Westbrook Cir, Gastonia, NC
Davis, George Kenneth	SO	AI	218 N. East St.	Te-24919	RT#1, Bessemer City, NC
Davis, Herman	FR	EE			2421 Wesley Rd, Raleigh, NC
Davis, James Caldwell	FR	NE	4th. Room 218		216 Live Oak, Beaufort, NC
Davis, James Edward	SO	CBE		Te-27207	122 Groveland, Winston-Salem, NC
*Davis, James Harold	SO	EE		Te-20446	2302 Fairview, Raleigh, NC
Davis, James Minor Jr.	JR	MEA	Becton	Te-29261	216 S. Howell, Rocky Mount, NC
Davis, James R.	SR	WCM	Turlington		RFQ#2, Vass, NC
*Davis, James Robert	SR	CE		Te-43843	20E, Vetsville, Raleigh, NC
Davis, John Ray	FR	IA	Turlington	Te-29297	RFQ#2, Vass, NC
Davis, Max Ray	FR	CHE	Owen		RFQ#3, Forest City, NC
*Davis, Moses Paul Jr.	JR	CBE	309 Chamberlain		101A Weatherspoon, Sanford, NC
*Davis, Richard Benny	JR	MEA			1444 St. Mary, Raleigh, NC
*Davis, Reeves Ketner	SR	ME	5F, Vetsville		RT#1,andler, NC
Davis, Robert Alvin	FR	CBE	Turlington	Te-29192	800 Trinity, Wilson, NC
Davis, Robert E.	SO	EE	Bagwell		2025 Sheppard, Thomasville, NC
Davis, Robert Lee	FR	NE	Becton	Te-29256	1011 Richard, Salisbury, NC
Davis, Robert McD.	SO	EE	Becton		216 Live Oak, Beaufort, NC
Davis, Roger	FR	E	Owen	Te-29464	P.O. Box 460, Lumberton, NC
Davis, Osborne Clark	JR	ME	Syme		P.O. Box 98, Davis, NC
Davis, Thomas Barry	FR	CE	Owen	Te-39115	RT#7, Box 4, Charlotte, NC
Davis, Thomas Paul	SO	FCM	Syme	Te-29150	RT#2, Shelby, NC
Davis, Thomas S.	SR	ME	Turlington	Te-29192	Box 158, Clifford, NC
*Davis, Thomas Willis	SO	CBE	Pine Lake Trailer	Te-37853	909 Front, Beaufort, NC
*Davis, Wade Miller	JR	CE			134 St. Mary, Raleigh, NC
Davis, Wilford L.	JR	EST	3620 Western Blvd.	Te-29668	1025 Penn. St. Joseph, Mo.
Davis, Wm. Clarke	JR	AG	Box 5658	Te-47736	Box 247, Southern Pines, NC
Davis, Wm. Edgar Jr.	FR	ARC	Tucker		Arlington, Va.
Davis, Wm. Edwin	FR	AGE	Bagwell	Te-47736	Box 1, Heaven Springs, NC
*Davis, Wm. H.					UK, 34, Vetsville, Raleigh, NC
Davis, Young Steele Jr.	SR	TX	Alexander	Te-29257	RFQ#2, Statesville, NC
Dawkins, Donald Martin	FR	ME	Tucker		P.O. Box 182, Rockingham, NC
*Dawkins, James Mitchell	SO	IE		Te-48177	2735 B, Kilgore, Raleigh, NC
*Dawson, C.G.					RT#1, Goldsboro, NC
Dawson, John Robert	SO	EPY	Owen	Te-29252	58 Treanbriar, Hampton, Va.
Dayne, Jerry G.	SR	HAC	Bagwell	Te-47436	RT#8, Concord, NC
*Deal, Billy C.	JR	EE	323, Vetsville	Te-29219	308 College S. Newton, NC
Deal, James F. Jr.	FR	CHE	Bagwell		Box 1, Rocky Mt., NC
Deal, Perry Lee	SR	McA	Bagwell		Box 1, Rocky Mt., NC
*Deal Robert B.	SR	IE	9E, Vetsville	Te-24262	433 5th, Hickory, NC
Dean, Jerry Wayne	FR	ME	Syme		4818 Monta Vista, Winston-Salem, NC
Dean, Leonard P.	JR	EE	Tucker	Te-49739	RT#3, Oxford, NC
Dean, Wm. Rix	FR	AG	Owen		Box 44, Jackson, NC
DeAngelis, Amedea R. Jr.	SO	IRR	Bagwell		Reading Pa.
Deans, Bobby Drake	JR	TX	2514 Clark	Te-34522	1725 Hammond, Rocky Mount, NC
Deans, Cecil Thomas	JR	EE	916 W. South	Te-29759	916 W. South, Raleigh, NC
Deans, Phillip Maurice	SO	MEA	Becton	Te-29372	102 W. Vance, Wilson, NC
Deaton, Willis Robert	SO	EE	Owen		Box 1, Vetsville, NC
Deaver, Pete G.	JR	AG	Owen		Deep Run, NC
Debbagh, Khalid A.	JR	AG	113 Forest	Te-34090	Koysanjak, Iraq
DeBerry, James Clifford	JR	MEA	Tucker	Te-29224	Box 114, Rt. 1, Road, NC
DeBruhl, Joseph Martin	FR	IE	Alexander	Te-47736	Box 1, Vetsville, NC
*DeBoard, Charles Lacey	FR	ME		Te-23390	6 Dixie Trail, Raleigh, NC
DeCoate, Richard Louis	SO	ARC	2435 Clark	Te-26543	135 W. Oak, Basking Ridge, NJ
DeCoursey, John Barclay	SR	IA	Tucker		1205 Greenwood Cliff, Charlotte, NC
deDiego, Almedo A. Jr.	JR	NE	Tucker	Te-29186	Box 113, Mt. Pleasant, NC
*Deely, Brian Mahon Jr.	SO	EE		Te-22651	B-5 Raleigh Apts, Raleigh, NC
Deese, Emerson B. Jr.	SR	AY	2100 Hillsboro	Te-46094	RT#3, Monroe, NC
DeHertogh, August Albert	SR	FC	2414 Clark	Te-42451	RR#1, Lemont, Ill.
Delts, Paul Lewis	FR	EE	Tucker	Te-29367	228 1st St, Hickory, NC
Dellinger, Jack David	JR	CE	101 Watauga	Te-29447	Bakersville, NC
Dellinger, Wm. Martin	FR	ME	Bagwell	Te-29131	4218 Blackwood, Charlotte, NC
*DeMarra, John Robert	JR	IE	2514 Country Club	Te-46886	324 W. Kline, Burlington, NC
Demant, Donald J.				Te-46886	Box 1, Raleigh, NC
Dempsay, James Wm.	SR	IA	16 Enterprise	Te-27050	Winterville, NC
Denise, Warren P.	JR	NE	19 Stadium	Te-47736	Box 4, Wilmington, Raleigh, NC
Denning, Bobby Ray	FR	EE			RFQ#1, Benson, NC
Denson, Alexander B.	FR	CHE	Becton		Box 246, Whitakers, NC
Denton, Donald Lee	JR	EE	2701 Hillsboro	Te-21835	Anderson, Morganton, NC
Denton, Harold Ray	JR	NE	Becton	Te-29261	714 S. Franklin, Rocky Mount NC
*Depoe, Charles E.	FR	HRT	7C, Vetsville		Box 1, Hampton, NY
Derrick, Wm. Edwin	FR	AG	Watauga	Te-29132	RT#6, Box 614, Charlotte, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Dass, Darrell Charles	JR	IRR	Bagwell	Te-29131	109 Knox, New Castle Pa.
Devinney, George Louie	SR	TX		Te-46967	606 D. Daniels, Raleigh, NC
*Devinney, Joseph Donald	FR	TX	Tucker		RT#1, Lawndale, NC
Dew, Harold Powell	FR	TX	Becton	Te-29334	RT#2, Raeford, NC
Dhammanuvong, Sommart	SO	AG			Ubol, Thailand
Diano, Daniel A.					103 Park #4, Raleigh, NC
Dick, Wm. Edwin Jr.			2718 Clark	Te-26451	Box 6, Afton, Va.
Dickens, Robert Rufus	FR	MEA	Tucker		401 S. Prospect, Columbia, SC
*Dickerson, Bryson T.	FR	TX	2713A Clark		102 Grace, Oxford, NC
Dickinson, Robert Waldo	FR	CEC		Te-26992	3039 Lewis Pk, Raleigh, NC
Dietz, Allan Clifford	FR	CE	Turlington	Te-29192	750 Ferndale, Winston-Salem, NC
Diggs, Richard E.S.	SR	ME	204 W. Edenton	Te-40239	1135 Little Bay, Norfolk, Va.
*Dill, Taylor Wm.	SR	DM	1212 College Place	Te-47801	RFD#1, Taylor, SC
Dillard, David H.	SR	PPT	Owen		Box 134, Sylva, NC
*Dilley, George W.	SO	AI			1122 Parker, Raleigh, NC
*Dillingham, Bobby Howard	JO	EE			RT#2, Raleigh, NC
Dillingham, Clarence Lee					301 Colleton, Raleigh, NC
Dills, Kenneth M.	FR	AG	Tucker	Te-29323	RT#5, Franklin, NC
Dinardo, Philip	SR	ME	Turlington		2418 J. Camac, Philadelphia, Pa.
Dixon, Adrian C. Jr.	FR	ME	Turlington	Te-29192	Box 86, Elm City, NC
*Dixon, Ernest Leo	FR	EE	2320 Clark	Te-30670	Vesley St., Greensboro, NC
Dixon, Charles Royce	SO	ME	Bagwell		RT#2, Siler City, NC
Dixon, George G.	SR	ME	Gold		503 Snow, Ayden, NC
Dixon, Larry Mitchell	SO	IRR	Bagwell		RT#1, Washington, NC
Dixon, Rodney McSwain	SO	CEC	Becton	Te-29334	511 S. St. Statesville, NC
Dixon, Thomas Wray	SO	ME	Syme	Te-29288	407 Morehead, Reidsville, NC
Doar, Bachman Jr.	JR	CEC	1710 Hillsboro	Te-42801	421 S. Main, Concord, NC
*Doby, Wm. Pinckney	SR	CHE		Te-25654	415 S. Main, Raleigh, NC
Dobson, Troy Lee	JR	FX	Owen	Te-29115	1131 Boone, Morganton, NC
Dodenhoff, Martin H.	FR	TX	Turlington	Te-29297	Greenville, SC
*Dodson, Henry W. Jr.	SO	EE			1315 Brooks, Raleigh, NC
*Dodson, Wm. Waldo 3rd.	FR	ARC		Te-46906	711A, Daniels, Raleigh, NC
Dodson, Guy McP. Jr.	FR	EE	Owen	Te-29410	New Bern, NC
Doepner, Roland Wm.	SO	TX			RT#1, Raleigh, NC
*Doerflinger, John A.	FR	EE	Owen		RT#4, Shelby, NC
Donald, James Robert	FR	AG	Gold		RT#1, Greensboro, NC
Donohoe, Clive W. Jr.	JR	FR	210N Harrington		Buckingham, Va.
Donohue, Raymond Joseph	JR	HRT	3002 Lewis Farm Rd.	Te-46564	Overland, Kans.
*Dooley, Milton Thomas	SR	ES			208 Academy, Raleigh, NC
Dorfman, Robert Allen	FR	ME	Tucker	Te-22995	919 N. Blount, Raleigh, NC
Dorman, Jerry C.	FR	AGE			Manet, NY.
Doss, Michael Wayne	FR	CE	Tucker		RT#5, Raleigh, NC
*Doss, Robert Kyle	FR	EPY	1425 Beaver Dam	Te-26144	4514 Renegar, Winston-Salem, NC
*Dover, James Harold	FR	CE	1508 Frank		Manteo, NC
Dowd, Charlie Odell	FR	EE	367, Vetville	Te-29381	709 Hamrick, Shelby, NC
Dowdle, Charles Marcus	FR	AG	Tucker		RFD#1, Gibsonville, NC
*Dowell, William B. Jr.	JR	EE		Te-29329	Box 526, Franklin, NC
Dowless, Victor G.	SR	FOR	8 Ferndell Lane	Te-29365	1505 Frank, Raleigh, NC
Downing, Joseph E.					RT#1, Rome, NC
Downs, Richard Stanley	FR	EE	Tucker	Te-47939	Kipling, NC
Downs, Wm. Wayne	SR	TX			1143 Miller, Winston-Salem, NC
Dozier, Arthur Lee 3rd.	SO	ARC		Te-29250	111 Hospital, Lenoir, NC
*Dozier, Ebb N.	SO	HAC			3307 Hall Place, Raleigh, NC
Dozier, Gary F.	SO	FOR		Te-24109	29B, Vetville, Raleigh, NC
Drake, Everett C.	FR	TX	Bagwell	Te-29131	18 Dixie Dr., Raleigh, NC
Drake, Wm. Carl	FR	ME	Syme	Te-29150	11 Hawkins, Baldwin, NY
Draughn, Robert A.	FR	ME	Alexander	Te-29349	Hendersonville, NC
Draughn, Harold McD.	FR	CE	Becton	Te-29372	911 Park, Wilson, NC
*Driggers, James A.	SR	TX	30A, Vetville	Te-42018	RFD#4, Zebulon, NC
Driggers, John L.	FR	TX	Tucker		RT#3, Box 221, Fayetteville, NC
Driscoll, Ernest P.	SO	IRR	Becton		RT#1, Box 475A, Charlotte, NC
Driver, Daniel McC.	FR	CE	Owen		1700 Fairlee, Pittsburg, Pa.
Drage, John Henry	FR	AGC	2713 Vanderbilt	Te-24916	RT#1, Wendell, NC
Dry, Ted C. Jr.	FR	AG	Tucker	Te-29387	204 S. 8th, Seneca, Ka.
Drum, Victor F.	FR	EE	Tucker	Te-29312	861 2nd NE, Hickory, NC
Dubois, Joseph A. Jr.	SO	ME	Berry	Te-29350	Albemarle, NC
Duckworth, Clarence A.	FR	FX	Turlington		1505 Shackelford, Morehead, NC
Dudley, Wm. Louis	FR	CE	Alexander		RT#4, Box 116 Morganton, NC
*Dugger, Awley J.	FR	ME	Watauga		309 Barnette, Roxboro, NC
Duke, Richard Tolliver	FR	MEA	Bagwell	Te-29131	1062 Winslow, Fayetteville, NC
Duke, Wm. O.	FR	ARC			RFD#3, Sanford, NC
Dulin, John Walter	FR	ABC	Owen	Te-29410	307 Perry, Raleigh, NC
Dunbar, Francis Allen					Rockingham, NC
Duncan, Cecil L.	FR	ME	Becton	Te-29372	2226 Hillsboro, Raleigh, NC
Duncan, Frank Patrick	FR	IE	Becton	Te-29334	RT#2, Chapel Hill, NC
Duncan, Michael C.	FR	EE	Watauga		RT#1, Box 392, Siler City, NC
*Dunigan, Robert Lewis	SR	AGE	RT#4, Avert Ferry Rd.	Te-38658	RT#1, Box 299, Siler City, NC
*Dunlop, Earl S. Jr.			635A Daniels		605 Podie, Fayetteville, NC
Dunn, Allen G.	FR	CEC	Syme		316 S. 16th, Allentown, Pa.
Dunn, Robert M.	FR	ME	Tucker		2117 Main, Tarboro, NC
Dunn, Thomas Richard	FR	CE	Becton	Te-29334	RFD#3, Hebane, NC
*Dunn, Wm. Harp	FR	CE	109 Park		Box 408, Hamlet, NC
Dunning, Herman Lee	JR	FXM	Turlington		112 Cynthia, Statesville, NC
Duplessis, John Joseph	SR	NE	2512 Clark	Te-24843	109 Broad, Thomasville, NC
Dupree, Wm. George Jr.	FR	EE	Tucker		2107 Wakefield, Richmond, Va.
Dusenbury, Charles Edward	SR	ME	Alexander	Te-49746	129 Hudson, Raleigh, NC
Dye, Earl E. Jr.	JR	TX	Tucker		RT#1, Box 195, Wilmington, NC
					2516 Jefferson, Wilmington, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Eahins, Thomas A.	FR	FOR	3207 1/2 Bedford	Te-48059	Ivanhoe, NC
Earle, Theodore W.	FR	MEA	125 Hawthorne	Te-21183	Savannah, GA.
*Earley, Garland Aldrey	FR	ME	2813 Hillsboro	Te-29657	Box 66, Avondale, NC
Earley, James T.	SR	ABC	130 S. McDowell	Te-36098	130 McDowell, Raleigh, NC
*Early, Jack Dent	SR	ENT		Te-39013	17 Bagwell St., Raleigh, NC
*Earney, Arlen Reid	SO	ARC	Owen		Charlotte, NC
*Earnhardt, John W.	JR	HAC	1226 Duplin	Te-40801	415 Harris, Monroe, NC
Easley, James Samuel	JR	IE	Owen		Clemmons, NC
*Eason, Bobby Ray	FR	AG	Tucker		RT#3, Elm City, NC
Eason, Donald D.					1914 Chapel Hill Rd., Durham, NC
Eason, George Alben	FR	CE	Syme	Te-29150	Box 357, Macesfield, NC
Eason, Glenn Alfred	GE	CE	115 Woodburn	Te-22933	Belma, NC
Eason, Grover G.	FR	E	Alexander		Box 11, Gatesville, NC
*Eason, Samuel Miller	JE	CE	1508 Frank	Te-41821	
Easter, Wm. T.	SO	EE	Turlington	Te-49279	Box 2474, Winston-Salem, NC
Ebhardt, Carl A.	SO	EE	Berry		30 Banster, Halifax, NC
Eclerd, Jos. H.	SO	SHE	Alexander	Te-29149	261 Rutherford Rd., Marion, NC
Eckhard, Seth Lyman	FR	IA	Tucker	Te-29388	P.O. Box 125, Alamance, NC
*Edmonds, Rufus Eugene	SO	CEC	Zebulon, NC		
Edmondson, James G.	SO	EE	Bagwell		
Edmondson, Richard C. Jr.	FR	CHE	Owen	Te-29412	RFD#1, Pikeville, NC
Edmondson, Spencer S. Jr.	SR	IE	Becton	Te-27791	800 Burton, Rocky Mount, NC
Edmund, Jow Weldon	JR	AG	Syme	Te-29222	Country Club Dr., Rocky Mount, NC
Edwards, Charles S.	FR	AG	Bagwell	Te-29131	RFD#2, Chadbourn, NC
Edwards, Charles T.	SO	AG	Bagwell	Te-29412	RT#1, Mr. Villa, NC
Edwards, Edwin Ray	JR	EE	Bagwell		1100 South Jrd., Smithfield, NC
*Edwards, Fred H.	JR	E			RT#1, Newton Grove, NC
Edwards, George P.	EE	Syme			5214 Western Blvd., Raleigh, NC
Edwards, Harold L.	FR	TN	Owen		Pendleton, NC
Edwards, Hilton Allen	FR	MEA	Owen	Te-29437	401 Jarvis, Greenville, NC
Edwards, James H.	FR	EE	Owen		RFD#2, Box 55, Washington, NC
*Edwards, James Roy	SR	AI			1106 Caldwell, Greensboro, NC
Edwards, James W.	SO	ARC	Alexander	Te-29349	Mt. Research Station, Waynesville, NC
Edwards, Jerry Van	FR	ARC	116 Hawthorne	Te-29406	Chadbourn Rd., Whiteville, NC
*Edwards, John E.	SR	ME	1019, Vetsville	Te-25043	RT#3, Box 21, Spring Hope, NC
*Edwards, John Dixon	FR	CE	120 Forest Rd.		RT#6, Sanford, NC
Edwards, John P.	FR	ME	Syme	Te-29150	120 Forest Rd., Raleigh, NC
Edwards, Nowl L.	FR	MEA	Owen	Te-49410	RT#1, Pinetops, NC
Edwards, Ralph, G. Jr.	FR	ARC	Berry	Te-29363	Marble, NC
*Edwards, Robert Lee	SR	AI	UKA, Vetsville		303 W. Marsh, Salisbury, NC
Edwards, Robert L.	JR	ME	Tucker	Te-29323	Barnardsville, NC
Edwards, Robert Oliver	JR	ACE			Sherrill's Ford, NC
Edwards, Talmadge H. Jr.	SO	ME	Tucker		RT#1, Morrisville, NC
*Edwards, Ted A.	FR	ME	2007 Clark		RT#2, Franklinton, NC
Edwards, Thomas H.	FR	ARC	104 4th.		115 N. 9th, Belmont, NC
Edwards, Wm. S.	FR	JR	Tucker		627 W. Main, Williamston, NC
Edwards, Wm. Warren	SR	LA	221 Forest Rd.		RT#2, Middlesex, NC
Efrid, Alex McE.	SR	ME	SPE House	Te-29443	1537N.W. 37th, Okla City, Okla.
Efrid, Lane J.	FR	ME	Owen		2708 Park, Wilmington, NC
Egleston, Brian	JR	TX	Watauga	Te-29447	4128 Lansing, Charlotte, NC
Elpe, Fannie I. J.	JR	TX	Gold	Te-29263	Lanarkshire, England
Eliades, George K.	SO	FOR	Tucker	Te-29388	India
Elledge, Vaughn H.	JR	EE	1745, Raleigh, NC	Te-29424	400 Harker, Lumberton, NC
Ellenberg, John W.	SO	CHE		Te-29150	RT#1, Box 35, North Wilkesboro, NC
*Ellentuck, Bertram	ARC		189, Vetsville	Te-6096	2500 Elon, Charlotte, NC
Ellington, Benjamin Limer	JR	CE			Box 4485, Markers Island, NC.
Ellington, Troy Dean	FR	ME		Te-49836	160 James, Concord, NC
Elliott, Benjamin Bruce	FR	ME			Box 22, Tabor, NC
Elliott, David Bruce	FR	CE	Turlington	Te-39192	Box 252, Forest City, NC
Elliott, Floyd W. Jr.	FR	ME		Te-29437	2005 Thomas, Charlotte, NC
Elliott, Kenneth B.	FR	ME		Te-29115	Star Route, Black Mtn., NC
*Elliott, Norman M.	JR	TX			RT#2, Marion, NC
Elliott, Yancey G. Jr.	JR	CHE		Te-34522	Norfolk, Va.
Ellis, Bobby Joel	JR	ME	Berry	Te-29363	181 Harrison, Asheville, NC
Ellis, Daniel M.	FR	EE	Tucker		249 S. Main, Mt. Airy, NC
Ellis, Dewey Moses	FR	ME			RT#4, Box 97, Jackson, NC
Ellis, George L.	FR	AI			RT#5, Goldsboro, NC
Ellis, James P.	SO	LA		Te-247411	RT#6, Box 97, Jackson, NC
Ellis, Jonathan Barnes	SR	ACC	107 Fourth	Te-29159	RT#1, Stantonburg, NC
Ellis, Phillip R.	FR	ARC		Te-4936	Clarkton, NC
Ellis, Wm. Edward	SO	ME	1720 Hillsboro		V. 310 4th, Virginia Beach, Va.
Ellison, Thomas Vern	SO	ME	Tucker		14 Dixie Trail, Raleigh, NC
*Elanshar, Mohsen B.	JR	TX	Gold		121 N. Patterson, Statesville, NC
Elmore, James L.	JR	TX			Creston, NC
Elzey, Horace R.	FR	ARC	Tucker		122 Red Cross, Fairmont, NC
Emanuel, Robert C.	FR	RS		Te-22265	122 Red Cross, Fairmont, NC
*Emerson, Robert D.	SO	EE			2229 Noble Rd., Raleigh, NC
Emery, George F.	FR	ME			RT#1, Box 111, Raleigh, NC
*Emery, James Thurman	FR	ME	Tucker	Te-29312	Charlotte, NC
Emmert, W. Shaw Jr.	FR	ME	Tucker	Te-40593	335 Mulberry, Raleigh, NC
Emmerke, Charles Robert	FR	ME		Te-40593	401 S. Main, Raleigh, NC
Emory, Bobby Yates	FR	ME		Te-40593	401 S. Main, Raleigh, NC
Emory, Joe B.	FR	ME		Te-40593	Philadelphia, Pa.
*Emory, John Albert	FR	ARC		Te-29603	102 S. Main, Winston, NC
Ende, Burton Y.	FR	FT			727 N. Chestnut, Seymour Ind.
*England, Harry R. Jr.	FR	ME	104 Park		RT#3, Marion, NC
Englehardt, Dan W.	FR	ARC	Alexander		Willard, NC
*English, Frank W.	FR	OM	208 Baylar		
English, Ronald H.	FR	ACE	Becton	Te-29256	

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*English, Stephen C.	SR	AGE	2017 1/2 Fairview	Te-27510	RFD #1, Willard, NC
Enloe, Frank R.	SR	AG	Bagwell		RT #4, Waynesville, NC
Ernull, Robert E.	SR	MEA	Owen	Te-29115	#04 Contentner, New Bern, NC
*Epps, Harry Edward	SR	FMW	219 Wilmington	Te-46499	1104 Beach, Wilson, NC
Essobar, Jose J.	SR	TX			Columbia, S.A.
Eskridge, Charles R. Jr.	JR	E	Berry	Te-29363	327 E. Marion, Shelby, NC
Essex, Judson P. Jr.	JR	EE	400 Chamberlain #F		Winston-Salem, NC
Estep, Philip M.	FR	IE	Bagwell	Te-29131	113 Oakford, Plymouth, NC
Estis, Harold B.	JR	IRR	Becton	Te-29327	1325 Edw. L. Grant Hwy, Bronx, NY
Estridge, Ronald R.	JR	IE	114 Hawthorne		36 Lookout, Asheville, NC
Etchison, John W.	FR	AG	Tucker		
Etheridge, Joseph L.	SR	CE	Tucker		RT #1, Elizabeth City, NC
Etchridge, Wilbur Bruce	FR	TX	Bagwell	Te-29131	1320 Wilson, Rocky Mount, NC
*Eudy, Darrell Joe	SR	EE	2339 Bernard	Te-47201	Charlotte, NC
Eudy, Robert G.	SR	ME	Syme		RT #2, Box 54, Albemarle, NC
Eudy, Wm. Howard	SR	IRR	Becton		Beaufort, NC
Eury, Lynn, Wade	SR	EE	Syme	Te-29222	RT #2, New London, NC
Evans, Lucius R.	PR	ARC	2220 Hillsboro	Te-42926	P.O. Box 63, Youngsville, NC
Evans, Richard Thomas	SR	CE	Berry		906 Kearns, High Point, NC
*Evans, Max Delando	SR	LA			#5, Dixie Trail, Raleigh, NC
Evans, Wm. Edward	FR	EE	Owen	Te-29464	1311 Howard, Kinston, NC
Evans, Wm. Ernest	SR	EE	Alexander		Murfessboro, NC
Evans, Wm. George	FR	IPS	Gold		319 E. Gaston, Greensboro, NC
*Evans, Lloyd J.	FR	EE	616 Glenwood,		2906 Reynolds, Winston-Salem, NC
Evans, Roland B.	FR	NE	Watauga	Te-29132	423 E. Park, Cary, NC
*Evans, Wm. Rue	FR	ABC	2528 Wake Drive		752 Va. Ave. Polanshoo, W.Va.
Everette, John David	SR	ARC	184 Horne St.	Te-47470	823 Falls, Rocky Mount, NC
*Everleigh, Carl A. Jr.	SR	EE	117 Brooks		509 E. 8th, Lumberton, NC
Fadgen, Richard Dennis	SR	IRR			237 Greene, Woon, R.I.
Fagan, Roy Otha Jr.	SR	CEE	2514 Clark	Te-34522	212 New, New Bern, NC
*Fairchild, Richard Penny	FR	CE	Owen		2311 Forest Dr., Charlotte, NC
Faircloth, Croom Maurice	FR	CE	Owen		603 Sunset, Clinton, NC
Faison, Thomas K. Jr.	SR	CHE	Tucker		Faison, NC.
Fales, Gene Hinnant	JR	NE	1218 Glenwood		RFD #2, Box 74A, Wilmington, NC
Farley, Donald Fred	JR	GEE	Tucker	Te-29312	RFD #1, Box 943, Bluefield, W.Va.
Farley, Edward Dayton	FR	EE	2506 St. Mary		1706 E. 6th, Greenville, NC
Farley, Walter Ronald	JR	CE	Tucker	Te-29312	RFD #1, Bluefield, W.Va.
Farmer, Berkwood M.	FR	AG	Owen	Te-29437	Ringgold, Va.
Farmer, Moses G.	JR	MEA	RT #2, Raleigh,	Te-24058	RT #2, Raleigh, NC
Farmer, Willard C.	SR	IE	Tucker		Morganton, NC
Farrrell, Robert Smith					
Farrior, Stanley McN.	JR	IE	Becton	Te-29256	Bridges, Burgaw, NC
Farris, Ellis Moses					1109 Raymond, Raleigh, NC
Farrow, Wm. B.	SR	ATY	Tucker		Engelhard, NC
Farthing, Winfield H.	SR	SE	Alexander	Te-29257	Box 592, Boone, NC
Fary, Avery David, Jr.	FR	PPT	Tucker	T2-20323	Shackelfords, Va.
Fasting, Knut			Berry		Oslo, Norway
Falkner, Fred E.			Berry	Te-29363	55 How Creek, Asheville, NC
Faulkner, Louis A.	SR	EE	Owen	Te-29410	3613 Annlin, Charlotte, NC
Faust, Lucien C.	JR	ARC	Welsh	Te-29119	1212 Cortez, Coral Gables, Fla.
Faw, Homer J. Jr.	FR	ME	Owen	Te-29252	Box 192, Conover, NC
Fawcett, Raymond L. Jr.	SR	PPT	Owen	Te-29115	Lee St., West Point, Va.
Felmater, Wm. J.	JR	AED	Watauga		Union Grove, NC
Felton, Turner Ellis	JR	CE	Turlington	Te-29192	P.O. Box 334, Macclesfield, NC
Feltnor, Charles B.	JR	ME		Te-45151	901 Canterbury, Raleigh, NC
*Felts, Wordest Ray	JR	TX	Watauga		Roanoke Rapids, NC
Fenner, Wm. Orien	JR	SEP	Becton		Box 101, Columbus, NC
Ferguson, Bernard Woody	FR	AG	Becton		RT #1, Clyde, NC
Ferguson, David, N.	SR	CE	Welsh		Gastonia, NC
*Ferguson, James F.	FR	ME	2303 1/2 Clark		1011 Holland, Gastonia, NC
Ferguson, James M.	FR	AG	Becton		RT #1, Clyde, NC
Ferguson, Lenard Neal	FR	ME	Alexander	Te-29349	
*Ferneynough, Richard H.	FR	AI	Animal Disease Lab.	Te-47336	RT #3, Raleigh, NC
Ferrell, James Miller	FR	ME	Bagwell	Te-29131	511 Oakwood Lane, Graham, NC
*Ferrell, James C.	JR	GEE			2720 Roxboro Rd., Durham, NC
Feserman, Charles D.	SR	TC	Becton	Te-29334	222 W. 11th, Salisbury, NC
*Fetner, Donald H.					1803 Hillcrest Dr., Durham, NC
Few, John Billy	FR	AED	900 W. Johnson	Te-27423	RFD #1, Taylors, S.C.
Ficquett, Frederick A. Jr.	SR	ME	Owen	Te-29252	RFD #1, Wallace, NC
Fiederling, Otto Hans					Champ, Md.
*Fields, John A.	JR	HAC	413 Calvin Rd.	Te-26565	Box 102, Camseur, NC
*Fields, John C.					P.O. Box 638, Cary, NC
Fields, Julian Wm.	FR	TX	Tucker	Te-29387	302 W. Washington, LaGrange, NC
Fields, Parks C.	FR	AG	Owen	Te-29464	RT #1, Pleasant Garden, NC
Fields, Roddy Harper	FR	MAG	Tucker	Te-29387	RT #4, Box 179, Greensboro, NC
Fidels, Thurman M. Jr.	JR	IA	Bagwell	Te-29131	Wallace, NC
Phelly, Arthur Wm.	SR	NE	2209 1/2 Hope	Te-43096	1639 Preston, Alexandria, Va.
Fitts, Wm. Perron	SR	EE	Alexander	Te-29257	College St., Littleton, NC
Finch, Edwin O.	SR	AGE	Syme	Te-29150	RT #1, Bailey, NC
Fine, Marion Thomas					7 Maiden Lane, Raleigh, NC
Finger, Howard Linn	FR	EPY	Tucker		RT #1, Maiden, NC
Pinney, Robert B.	FR	POR	Owen	Te-29142	Box 16, Cramerton, NC
Fiorc, Alphonse R.	JR	IE	2400 Delta Dr.	Te-28793	974-54th Brooklyn, NY
Fish, Joseph R.	FR	CE	Tucker		1123 Romany Rd., Charlotte, NC
Fish, Lydia Mary			107 Gardner Hall	Te-43867	
Fisher, Benny F.	FR	ME	Watauga		Charlotte, NC
Fisher, Charles Hugh	TX		1408 Canterbury	Te-28653	Box 334, Marshall, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Fisher, Charles Page			2E132		E. Maiden, Raleigh, NC
Fisher, Henry Lee Jr.	FR	NE	Tucker	Te-29147	Mt. Pleasant, NC
Fisher, James C.	FR	E	Tucker	T2-29387	RT#1, Mt. Pleasant, NC
Fisher, Junius Virgil Jr.	SO	CE	2511 Clark	Te-20258	C.M.R. 359, Charlotte, NC
*Fisher, Margaret, Hughes					8 Maiden Lane, Raleigh, NC
Fisher, Roy E. 2nd.	JR	ME	Bagwell	T2-49151	2309 Walker, Greensboro, NC
Fitchett, John Am.					1715 Park Dr., Raleigh, NC
*Flanagan, David L.	JR	EPY			2610 Kilgore, Raleigh, NC
Flanagan, Harold M.	3R	AY	Becton	Te-29334	211 E. Church, Sarrville, NC
*Flanagan, R.T.					RT#2, Box 7, Enfield, NC
Fleming, Edwin D.	JR	TY	2544 Clark	Te-36522	14 Water, Franklinton, NC
Fleming, Edwin W.	JR	DEE	Syme	Te-29150	28E, Vetsville, Raleigh, NC
*Fleming, Gerald R.	JR	CE		Te-48116	4702, Sarrville, NC
*Fleming, Henry P.	2H	AI	16 Horne		Box 438, Coats, NC
*Fleming, Katherine B.					Box 26, Pikeville, NC
Fleming, Robert L.	FR	DEC	Becton		RT#5, Box 12, Morganton, NC
Fleming, Russell H.	JR	CE	Owen	Te-29437	622 W. Council, Salisbury, NC
Fleming, Wm. Franklin	JR	CE	Turlington		Asheville, NC
Fletcher, Hugh Larry	JR	CE	Welch		S. Main, Marion, NC
Fletcher, John E.	JR	MEA	Owen	Te-29410	RFD# 1, Carthage, NC
Flinchum, Wayne T.	FR	FCN	Syme		1647 Macombs, Bronx, NY
Floh, Edward	JR	ARC	3203 Hillsboro		
Flowers, David Moore	SO	FMN	Syme		106 Buena Vista, Statesville, NC
Flowers, Roger Marcus	JO	SE	Alexander		P.O. Box 211, Fairmont, NC
Floyd, Edwin Oliver	2H	ARC	#6, Teacheage		863 1st. NE, Hickory, NC
Floyd, Wm. Alexander	JR	CE	2210 Hope St.	Te-29971	RFD#2, Rose Hill, NC
Floyd, Willie L. Jr.	JO	ME	Becton	Te-29256	RT#7, Box 377, Salisbury, NC
Fluch, Richard C.	FR	AGE	Tucker	Te-29837	Box 25, New Milford, Conn.
*Flynn, John W.	JR		Buffaloe Trailer Pk.		49 W. Chestnut, Asheville, NC
*Flynn, Lenard J.	JR	IE	30E, Vetsville	Te-47561	925 Tower, Raleigh, NC
*Foard, Donald E.	2R	BO	925 Tower		632 Park, Charlottesville, Va.
*Fogleman, Maxwell B. 2nd.	JR	E	Tucker		211 Ferguson, Warwick, Va.
Folsom, John W.	JO	NE	Turlington	Te-30300	UKJ, Vetsville, Raleigh, NC
*Foradori, George T.	JR	JO	A6, Raleigh apts.	Te-30300	Box 388, Wallace, NC
*Forbes, Earnest Lee	JO	CE	Alexander	Te-30300	4928 Park, Wilmington, NC
Forbes, James A.	JO				Dixie Trail, Raleigh, NC
Forbes, Ralph L.					2932 Rush, Charlotte, NC
Ford, Wallace E.	3R	IE	314 W. Jones		Dudley, NC
*Forehand, Isaac J.	JO	ARC	1511 Gorman		P.O. Box 115, South Mills, NC
Forehand, Walter K.	JO	SE	Becton		Box 115, South Mills, NC
Foreman, Allen H. Jr.	FR	CE	Hatauga		Box 115, South Mills, NC
Forest, Alton, W.	JR	ME	2231 Swain St.	Te-49771	714 Smith, Cary, NC
Forn, Doual G. 2nd.	JO	CE	2226 Hillsboro		Box 115, South Mills, NC
Forney, John K.	JR	HS	Gold	Te-29263	32 Valley Rd., Neffsville, Pa.
*Fortin, John B. Jr.	JR	FCN	125 Hawthorne	Te-21183	123 Mr. Vernon, Decatur, Ga.
*Fortune, Dennis Lee	JR	CE		Te-34979	24094 Everett, Raleigh, NC
*Foss, Wm. Roy	JR	IE		Te-49163	2961 Winchester Ct., Raleigh, NC
*Foster, Dwight H.	FR	ME	Syme	Te-29160	4102 Market, Wilmington, NC
*Foster, Henry D.			Bayleaf Dr.		222 Forest Hill, Winston-Salem, NC
*Foster, Fred D.	FR	AG	RT#1, Cary, NC	Te-29967	RT#1, Box 262, Henderson, NC
*Foster, Frederick R.	SO	CE	1515 Scales, Raleigh	Te-49163	8L Lake Village, Wilmington, NC
Foster, Richard A.	FR	NE	Owen	Te-29252	Box 103, Fieldale, Va.
Fountain, Donald Ray	FR	NE	Tucker	Te-29312	
Fountain, Lafayette, B.	JR	CE	2722 Everett	Te-49163	120 Main, Tarboro, NC
Fornier, Erick P.	JR	TX	Tucker		Paris, France
Foust, Rene Ray	JO	CE	Tucker		RT#2, Lexington, NC
Foust, Wm. Val	JO	ME	Alexander	Te-49746	Box 115, South Mills, NC
*Fowler, Riley Hunter		ME			2739 Knowles, Raleigh, NC
Fowler, Vance C.		TX	Turlington		921 N. Williams, Henderson, NC
*Fox, Albert Dean	SO	IRR			5107 Western Blvd., Raleigh, NC
Fox, Dennis Lee	SO	CE	Turlington		1447 N. Rhyne, Gastonia, NC
Fox, Jerry H.	FR	POR	Syme		RFD#3, Roxboro, NC
*Francis, Jimmy B.	JR	DEE	Gold		Secunderabad-Dm, India
Franklin, Billy A.	3R	IRR	Bagwell		Box 115, South Mills, NC
Franklin, Ernes C.	JR	PPT	Syme		1109 Toledo, Lynchburg, Va.
Franklin, Melvin D.	JR	CE	122 Ashe	Te-34160	Box 391RT#2, Henderson, NC
Franklin, Wm. Wayne	JR	AED	Alexander		RT#3, Box 421, Henderson, NC
Fraselle, Jack Howard	3T	TX			500 Harvey, Raleigh, NC
Fraser, John P. 2nd.	JR	ME	Kathryn		1805 Tionah, Charlotte, NC
Frazier, John G.	JR	CE	Syme		Box 115, South Mills, NC
Frazier, Lawrence Roger	FR	ARC	14 Turner St.	Te-21359	155 Standish, Hartford, Conn.
Frazier, Leon Parks	FR	CE	14 Turner St.	Te-29252	Box 115, South Mills, NC
*Frazier, Russell W.					Box 115, South Mills, NC
Frazier, Samuel K. Jr.	FR	ME		Te-26505	1230 Canterbury, Raleigh, NC
*Freeland, Wm. E.	FR	ARC			2442 Greenway Ter. Raleigh, NC
Freeman, Harold B.			120 Forest Rd.		306 Washington, Roanoke Rapids, NC
Freeman, John L.	3R	DEE	Owen		Box 115, South Mills, NC
Freeman, Wray Edwards	SO	POR	Tucker	Te-29387	RT#2, Rutherfordon, NC
Freeman, Samuel H.	FR	ARC	1411 Franklin Rd.		2116 Alcorn, Savannah, Ga.
Freeze, Bobbie E.	3R	CE	Becton	Te-29334	Box 115, South Mills, NC
*Freeze, Joe P.	SO	CE	920 Harp Ter.	Te-49163	308 Myrtle, China Grove, NC
Freeze, Samuel K.	FR	ARC	Syme		Myrtle St., China Grove, NC
*Freeze, Ned Ray			114 W. Boone		Box 115, South Mills, NC
French, Gaylord H. Jr.	FR	ATP	Owen		P.O. Box 448, Draper, NC
Frew, Peter L.	FR	E	Tucker		Box 115, South Mills, NC
Fritts, Harry R.	FR	CE	Syme		RT#1, Greenville, NC
Friar, Ernest Mason	SO	CE	308 Horne	Te-29334	130 Howard, Tarboro, NC
Friedle, Edward Wm.	JR	CE		Te-49771	Box 115, South Mills, NC
*Frink, Darold Clinton	JR	ME	Manhattan Trailer Pk.		Box 115, South Mills, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Frink, Wm. Bunn Jr.	FR	ME	3014 Fairview Rd.		Box 481, Matthews, NC
*Frizzel, Clarence	FR	EE	Pine Lake Trailer Pk.		RT#1, Sylva, NC
Frost, Roger W.	FR	CE	Becton		407 S. Elam, Greensboro, NC
Fry, Edmund F.	FR	ME	Tucker	Te-49739	226 E. Green, Winston-Salem, NC
Frye, Gurney Van	SO	AG	Berry		P.O. Box 221, High Point, NC
*Frye, John Wm. Jr.	SR	MEA	602 S. Boylan		RFD#1, Aberdeen, NC
*Frye, Thomas Winfred	SR	EE	128, Vetsville,	Te-43273	202 Hamburg, Mc. Airy, NC
Funner, Raymond Kim	SO	CHE	Alexander		3501 Foxcroft, Charlotte, NC
Fuirelstein, David J.	SO	IA	Alexander		Lima, Peru
*Fulcher, Wm. Lewis Jr.	SO	IA		Te-49674	2310 Yancey, Raleigh, NC
Fulford, Joseph M.	FR	PV	Bagwell		RT#2, Farmville, NC
Fulham, Thomas Ray	SO	AED	Becton	Te-29372	RFD#2, Wilson, NC
Fulk, John Robert	JR	ATP	Welch	Te-29119	RT#1, Pilot Mt., NC
Fuller, Allen J.	FR	EE	Alexander	Te-29349	Liberty, NC
Fuller, Bobby Lee	SO	EE	Owen		RT#6, Box 467, Durham, NC
Fuller, Sherwood Thomas	FR	CE	Tucker	Te-49739	RT#1, Henderson, NC
*Fulp, Wm. Melvin	JR	EE	302, Vetsville		RT#3, Winston-Salem, NC
Fulp, Wm. W. Jr.	FR	TX	Owen	Te-49836	Winston-Salem, NC
Fulton, John David	FR	NE	Owen		227 11th, Norton, Va.
Fulton, Warren S.	SR	TX	21 Enterprise		311 W. Church, Louisburg, NC
*Fultonburg, John B. Jr.	JR	ABC	UK27, Vetsville	Te-45626	RT#1, Box 282, Castle Hayna, NC
Russell, Horace J.	SR	ABC	202 Fourth		Rose Hill, NC
Putreal, Kenneth Ray	FR	CE	Owen	Te-29410	Rocky Mount, NC
*Putwell, Ben Ray	SO	TX	132 nd Filmore	Te-42249	418 Branch, Rocky Mount, NC
Putrell, James Clyde	FR	NE	Box 48, Cary, NC	Ho-75811	402 S. Walker, Cary, NC
*Putrelle, Robert H.	FR	IA	642 W. Mount	Te-37253	RT#3, Mr. Olive, NC
Puttman, Neil Rogers	TX	TX	130 Hawthorne	Te-47325	8412 35th, Jackson Heights, NY
Caddy, Delma Ray	FR	TX	Cyme	Te-29222	RT#3, High Point, NC
*Gaither, John B.	FR	EE	Textile Bldg.		2349 Churchhill Rd., Raleigh, NC
Gaither, Wm. George Jr.	FR	EE	Region		RT#8, Statesville, NC
*Gall, Ronald Andre	FR	IRK	2 Rosemary	Te-29665	1403 Kere, New Castle, Pa.
*Gallagher, Donald Michael	FR	TX	Turlington		29 Munsell, Binghamton, NY
*Gallimore, Wm. Wesley	FR	ABC	UK28, Vetsville	Te-29282	Creston, Ky.
*Galloway, Craig C.	FR	CE	20 Peace St.		303 E. Whittington, Greensboro, NC
Gantt, Charles Arthur	FR	AG	Becton	Te-23972	2403 Club Blvd., Durham, NC
Gantt, Jack C.	FR	ME	116 Hawthorne	Te-28406	Box 13, Newton, NC
Garcia Carlos S.	FR	CHE	Owen		Cte, Cuba
*Gardano, Anselo J.	FR	ME	Owen	Te-29115	3304 Lewis Farm Rd., Raleigh, NC
Gardner, Ben Alton Jr.	FR	CE	Tucker	Te-29367	RT#2, Box 187, Ayden, NC
Gardner, Charles Ray	FR	TX	Becton	Te-29334	307 Albemarle, Greenville, NC
Gardner, Donald J.	FR	TX	Becton	Te-29334	211 S. Eleanor, Dunn, NC
Gardner, Jack Allen	SO	EE	1002 Wake Forest Rd.	Te-28527	Pasadena, Calif.
*Gardner, James Donald	FR	EE		Te-28527	RFD#1, Mt. Airy, NC
*Gardner, Joseph C.	FR	EE	Becton	Te-22410	RT#1, Cary, NC
Gardner, Joseph Irvin	FR	EE	Becton		Box 7, Saratoga, NC
Gardner, Richard A.	SR	GEE	2513 Clark	Te-29268	RT#5, Windsor, NC
Gardner, Robert S.	JR	TX	304 E. Park	Te-27638	230 Kensington, Lynbrook, NY
Gardner, Robin P.	SR	CHE	1425 Curfman		RT#3, Zebulon, NC
Gardner, Wm. Wright	SO	ME	3444 Hill'sboro	Te-34808	215 N. 18th, Wilmington, NC
Gardner, Carlton Leroy	FR	AG	Becton	Te-29372	2001 McCarthy, Raleigh, NC
Garner, Edward C.	FR	AG	Becton	Te-29372	RT#2, Box 312, Roanoke Rapids, NC
*Garrabratt, Wm. P.	SR	FMK	831 A. Daniel	Te-45666	2236 Mimosa Place, Wilmington, NC
*Garren, Donald Lee	SO	ME	Owen		3550 Cornell Blvd., Winston-Salem, NC
Garrett, Ann Scott	FR	IPS		Te-43713	2702 Ashland, Raleigh, NC
Garrett, James Thomas	FR	AGP	Alexander	Te-029349	Box 259, Liberty, NC
Garrett, Vance L.	FR	ME	Owen		RFD#2, Leicester, NC
Garris, John Wm. Jr.	SO	IE	23 Stadium	Te-19803	1212 Mimosa, Goldsboro, NC
*Garrison, Colleen Buff	JR	CE	230, Vetsville	Te-23476	422 E. Main, Lincolnton, NC
Garrison, Vernon T. Jr.	FR	FMK	1719 Hill'sboro	Te-24011	Walker St., Morganton, NC
*Garrison, Wm. E. Jr.	JR	CEC	230, Vetsville	Te-23476	422 E. Main, Lincolnton, NC
Garrow, Victor Herbert	FR	CE	Gold		Box 235, Valdeese, NC
Garwood, Wm. Ray	FR	CE	Tucker	Te-29739	16 Erwin, Coolemeec, NC
*Garvin, Robert Gene	FR	NE		Te-43311	825 C. Daniels, Raleigh, NC
*Gaske, Marvin C.	FR	IE		Te-29224	505 Harvey, Raleigh, NC
Gaskill, Seth B. Jr.	FR	IE		Te-36157	2243 Circle Dr., Raleigh, NC
Gates, Kenneth G.	FR	CE	Bagwell		Main Ext. Graham, NC
Gatwood, Henry M.	FR	CE	Bagwell		2623 Oldtex Rd., Winston-Salem, NC
Gay, Bobby Ray	FR	AGP	Cyme	Te-29222	RT#1, Kittrell, NC
Gay, Charles Houston	FR	MEA	Tucker	Te-49739	143 Huntley Pl., Charlotte, NC
Gay, John Gilbert	FR	ME	21 Enterprise	Te-27840	RFD#2, Walstonburg, NC
*Gay, Tommy Marvin	FR	CEC	Turlington		124 Enterprise, Raleigh, NC
Gaylord, Billy Frank	FR	AG	Alpha Gamma Rho		Roper, NC
Gentry, Carl Smith	FR	TX	Cyme	Te-29150	RT#2, Maxton, NC
Gentry, Charles O'Briant	FR	TX	Cyme		Box 103 Ca-Vel, NC
*Gentry, Howell Oscar Jr.	FR	AI			2706 Clark, Raleigh, NC
Gentry, John M.	FR	CE	Bagwell	Te-29412	RT#2, Roxboro, NC
*Gentry, Richard Lee	SO	EE	905 Wilmington Ter.		515 Wentworth, Reidsville, NC
*George, Charles F.	FR	NE		Te-21567	Gen. Delivery, Cary, NC
George, Critz Horton	FR	NE			2106 Breeze, Raleigh, NC
George, Douglas A.	FR	ME	18 1/2 Horne St.		2015 Roanoke Dr., Greensboro, NC
George, Horace Wm. Jr.	SR	PPT	1054 Nichols Dr.	Te-45462	West Point, Va.
*George, Robert L. Jr.	FR	ME		Te-29676	K34, Cameron Ct., Raleigh, NC
George, Robert M.	SR	MEA		Te-47470	2015 Roanoke Dr., Goldsboro, NC
Gettys, Joe C.	SO	ME	Owen		200 Lee St., Shelby, NC
Ghazi, Abdul Amir	SO	FR	Box 5825 State	Te-29334	Hillsboro St., Raleigh, NC
Gibbon, Edward Lee	FR	ME	Becton	Te-29334	1420 Nottoway, Richmond, Va.
*Gibbs, Clarence Lee	FR	ME		Te-56671	Wendell, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Gibbs, Hal Alfred	FR	FCM	Tucker	Te-291322	2th St., Winston-Salem, NC
Gibbs, George Sabin	SR	FCM	1314 Pollock Pl.		4014 Thernapple, Chevy Chase MD
Gibbs, Richard L. Jr.	FR	AT	1225 Brooks	Te-14932	Engelhard, NC
Gibson, Donald Ray	FR	TX			1934 Bernard, Raleigh, NC
Gibson, Harry Jackson	SO	EE	Owen	Te-29464	RT#2, Box 141, Laurinburg, NC
Gibson, Gerald Warren	SR	MAB	Syme		Seotland, Laurinburg, NC
Gibson, James Patterson	SR	MAB	2710 Everette	Te-29440	Laurel Hill, NC
Gibson, Ralph Marion	SR	ME	Welch		Box 153, Wayneville, NC
Gibson, Thomas J.	JR	FCM	RT#1, Apex, NC		1st St., Raleigh, NC
Gibson, Walter C.	FR	ME	Tucker		Belle Harbor, NY
Giddins, Robert I.	SR	TX	Box S. Park	Te-27638	Williamstown, Kansas
Gieseman, Raymond A.	JR	AGE	Gold		309 Maryland, Tarboro, NC
Gilbert, Harold R.	FR	ME	Bagwell	Te-29412	102 S. High St. Draper, NC
Giles, George C.	SO	ME	College View Tr. Ph.		RT#2, Box 586, Roanoke Rapids, NC
Giles, Harrison Alexander	FR	NE	Owen	Te-29154	Lima Peru
Giles, Jose A.	JR	ON	Gold	Te-29261	2122 Cresent, Charlotte, NC
Gill, Charles Herbert	SO	EE	Owen	Te-29446	1600 Pecan, Charlotte, NC
Gilland, Kenneth L.	FR	DE	Syme	Te-29150	Charlotte, NC
Gilland, Ralph L.	SR	ARC	Syme		404 Chapman, Greensboro, NC
Gillespie, Reginald B.	JR	TE	Syme		Box 137, Swepsonville, NC
Gilley, James H.	SO	NE	Turlington		1404 Sweet, Rocky Mount, NC
Gilliam, L. Wilson	SO	THE	Tucker	Te-29387	Box 561, Graham, NC
Gilliam, James D.	SR	ATP	915 Wilmington	Te-29355	706 Craven, New Bern, NC
Gilliam, Wm. E.	SO	EE	Tucker	Te-29387	2210 Cheltenham, Philadelphia, PA.
Gillikin, Benjamin F. Jr.	JO	HAC	1308 Boylan Trail		Julian, NC
Gilmore, Robert C.	JR	AT	19 Dixie Apts	Te-21764	RT#1, Box 195, Winston-Salem, NC
Gilmore, Thomas Odell	SO	HRT	Turlington		3114 Peebles, Greensboro, NC
Givets, Stanley S.	FR	TX	Turlington	Te-29297	1813 Burt Dr., Raleigh, NC
Gladwell, Robert T. Jr.	SR	ME	2014 Park	Te-29271	1600 Asheboro, Greensboro, NC
Glasgow, James E.	SO	PPT		Te-29150	Box 47, Carlisle, Ohio
Glass, James Monroe	SO	HAC	114 W. Jones		Van Nuys, Calif.
Glass, Phillip Dean	SC	PCR			1507 Glendale, Durham, NC
Gledhill, Vernal Henry	JR	ADY	UK39, Verville	Te-29124	91 Fenner, Asheville, NC
Glenn, Ferndal Martin	JR	ARC	922 W. Johnson	Te-22788	Box 45, Ellenboro, NC
Glenn, Gordon Jr.	JR	EE	Owen		RT#1, Bailey, NC
Glover, George Douglas	SO	EE	Syme	Te-29222	2428 Barry, Charlotte, NC
Glover, Tommy D.	SR	AED	210 Willow, Cary, NC	Te-29464	Rt. 1, Box 114, Mount Airy, NC
Glover, Wm. Brevard	FR	CE	Owen		3417 Ritch, Charlotte, NC
Good, Otis Edwin Jr.	SO	EE	9 Stadium		New Topsall Beach, NC
Godfrey, Homer Jerry	FR	CRE	Berry	Te-29350	106 Faircloth, Frankfort, Ind.
Godwin, James A. Jr.	FR	ME	Syme	Te-29150	409 Noren W., Ayden, NC
Goff, Merritt, M.	SO	CEC	Becton		712 Rush Rd., Fayetteville, NC
Goff, Robert Fisher	SO	ENT	7024 W. Morgan	Te-25733	114 St. George, Raleigh, NC
Goforth, Roy B.	SO	EE			1814 Chatham, Baltimore, Md.
Goldin, Joel A.	SO	EE			Mantaza, Cuba
Gombrov, Barry L.	SR	TX	304 E. Park Dr.	Te-27638	Solombia, S.A.
Gomez, Gustavo Alberto	SO	NE	Box 5554 State		Mexico D.F.
Gomez, Ramon	SO	TX	5712 State Station		RT#2, Delmar, Del.
Gomez, Renato J.	SR	TX	1410 Duplin Rd.		RT#2, M. Airy, NC
Gonzalez, Carlos Diaz	SC	TA			Box 76, Bolling Springs, NC
Good, George E.	FR	FCM	114 N. Bloodworth	Te-22130	2802 Highland, Meridian Miss
Good, Larry Buford	FR	MAG	Bagwell	Te-29131	510 W. Sharpe, Statesville, NC
Good, Cecil Conway, Jr.	FR	PP	2944	Te-29282	Kenansville, NC
Goode, Monroe Jack	FR	ME	24 St. Verville	Te-29222	RT#1, Elizabethtown, NC
Goodin, Thomas Haywood Jr.	FR	NE	Syme	Te-18940	501 Maubin, Salisbury, NC
Gooding, Guy V. Jr.	FR	PP	UK26, Verville	Te-29421	2610 Van Dyke, Raleigh, NC
Gooden, James Hayes	FR	AED	Syme		Box 140, Chatham, NC
Goodman, John Cameron	FR	WFM	P1 Kappa Alpha	Te-40451	RT#2, Box 419, Concord, NC
Goodman, John M.	FR	NE			Box 1, Mount Airy, NC
Goodrich, Robert G.	SO	IRR	Bagwell	Te-29192	Box 1, Mount Airy, NC
Goodnight, Floyd Edwin	SO	EE	Bagwell	Te-48323	Box 1, Mount Airy, NC
Goodson, Robert Lee	JR	EE	Turlington	Te-29150	2559 Rosewell, Durham, NC
Goodwin, Charles Buddy	FR	TX	F-11, Raleigh Apts	Te-48441	1210 S. Main, Raleigh, NC
Goodwin, Roy Davis	SR	TE	Syme	Te-48441	1210 S. Main, Raleigh, NC
Goodwin, Thomas Jerry	JR	TE	11 Ka House		1210 S. Main, Raleigh, NC
Goosby, George W.	JR	TE	11 Ka House		1210 S. Main, Raleigh, NC
Gordon, Sid Hamilton	SR	IRR	2701 Clark	Te-48017	1210 S. Main, Raleigh, NC
Gordon, Frank L.	SR	EE	2324 Bernard		1210 S. Main, Raleigh, NC
Gore, Grover A.	SR	AED	2324 Bernard		1210 S. Main, Raleigh, NC
Gore, James Wm.	SR	AED	2324 Bernard		1210 S. Main, Raleigh, NC
Gore, Joseph Paul	FR	NE	Berry	Te-29252	712 Rose, Rocky Mount, NC
Gorham, John C.	SO	EE	Owen	Te-49836	222 Shannanduse, Shelby, NC
Gorman, Ray Howard	FR	TX	Turlington		Manila, P.I.
Gotuaco, Charles	JR	TX	Owen	Te-29115	234 Stuart, Downingtown, Pa.
Goudie, Richard B.	FR	TE	1618 Hillsboro	Te-48441	2240 Glenn, Winston-Salem, NC
Gough, Wayne E.	JR	IE	260 Verville	Te-31287	Newport, NC
Gould, Leonard Mann	SR	IE	901 Glenwood		3668 Southdale, Winston-Salem, NC
Gower, Ernest Earl	FR	FCM	719 Virginia	Te-48441	2203 Francis, High Point, NC
Grady, Charles Robert	SO	TA	1706 Dare		203 Box 26, Kenly, NC
Grady, Paul Davis 2nd.	JR	FCM	Owen	Te-29464	203 M. Stocum, Goldsboro, NC
Grady, Warren Allen	FR	A2	Owen	Te-29115	1220 S. Grace, Rocky Mount, NC
Graham, Clevearn	FR	EE	Owen	Te-48441	Box 151, Yadkinville, NC
Graham, Phillip Ray	FR	NE	3414 Hillsboro	Te-48441	726 Bromley Rd., Charlotte, NC
Graham, Wm. Alexander 3rd.	JO	TA	Bagwell	Te-48441	Proctorville, NC
Graham, Wm. J.	SO	ME		Te-48441	Mt. Villa, N.C.
Graham, Wm. DeWitt	JR	CHB	204 Marsh	Te-48441	Box 1, Mount Airy, NC
Grainger, Luther M.	FR	ME	Bagwell		Box 1, Mount Airy, NC
Grant, Eric Dixon	JR	TE	1710 Hillsboro	Te-42001	Knightville Beach, NC
Grant, Richard O.	JR	TE	1710 Hillsboro		

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Grathwal, Wm. H.	JR	NE	9C, Vetville	Te-46063	
*Graves, Richard Lee	JR	TX	Alexander		RT#3, Box 121, Denton, NC
*Gray, Carroll A.	JR	ME	18E, Vetville	Te-48391	1002 Tiscavova, Elizabeth City, NC
Gray, Howard S.	SR	AH	Aloha Gamma Rho	Te-26951	RT#2, Kernersville, NC
Gray, Jack Norman	FR	E	Syme	Te-29288	111 Union Ave, Williamsion, NC
Gray, James Wm.	FR	EE	Bagwell	Te-29131	317 Bryant, Enfield, NC
Gray, Jasper Lee					
Gray, Robert J. Jr.	JR	ARC	Owen	Te-29252	Box 1092, Gastonia, NC
Gray, Wm. Hugh	SO	EE	Alexander	Te-29349	RT#1, Box 391, Supply, NC
Gray, Zane Allen	JR	MEA	Tucker		501 Patterson, Morganton, NC
*Green, Claude E.	JR	EE	2404 Clark	Te-20611	781 Oaklawn, Winston-Salem, NC
*Green, Durwood, L.					RT#3, Raleigh, NC
Green, John A.	SR	IA	204 Fourth	Te-29159	215 S. Howardm Tarboro, NC
Green, O. Prvoz	JO	ME	619 Aycock	Te-26636	1417 Ft. Bragg Rd., Fayetteville, NC
Green, Shelby Thomas	FR	DN	Owen		1151 7th, Durham, NC
Greene, Bobby Elmore	SR	AGE			RT#5, Oxford, NC
Greene, Chesley McA.	JO	AG	Owen		RT#3, Box 180 Mt. Gilead, NC
Greene, Donald N.	JO	MEA	Becton	Te-29334	P.O. Box 723, High Point, NC
Greene, Earnest C. Jr.	JR	EE	101 Fourth	Te-29159	204 Power, Spindale, NC
Greene, John Keith	FR	CE		Te-23872	2709 Kilgore, Raleigh, NC
Greene, Martin H.	FR	AGE	Turlington		P.O. Box 211, Aberdeen, NC
Greene, Robert Allison	SO	NE	7 Enterprise	Te-40434	209 W. Mulberry, Goldsboro, NC
Greene, Robert Lee	JO	AED	Turlington	Te-49279	RT#1, Star, NC
Greene, Wm. B.	JR	EE			814 Green, Durham, NC
Greene, Wm. Richard	FR	TX	1720 Hillsboro	Te-40457	309 N. Tremont, Greensboro, NC
Greer, Wilbur Kent	SR	CHE	Turlington	Te-29297	Box 187, Old Fort, NC
*Gregg, James Dale	JO	FOR	604 S. Boylan	Te-28296	6125 E. Ave. H. Iabel, Okla.
Gregg, Roger Allen	JR	MEA	Alexander		P.O. Box 62, Lenoir, NC
*Gregg, Stewart W.	JO	FOR	115 Park		P.O. Box 62, Lenoir, NC
Gregory, Frederick H.	JO	NE	1310 Hillsboro	Te-25897	Halifax, NC
Gregson, James D. Jr.	FR	FMV	Alexander	Te-29349	P.O. Box 1026, Liberty, NC
Grenier, James C.	FR	ARC	Watauga		3401 Hawthorne, Richmond Va.
*Grey, Donald D.A.	SR	ME	211 Park	Te-28230	1910 Thomas, Charlotte, NC
Greyer, Peyson C.	FR	ARC	Fourth		RR#5, Forestanton, NC
Greiger, Frederick	FR	ARC	513 Cleveland		2851 Sedwick, NY, NY
Grier, James B. Jr.	JR	CBC	Tucker	Te-29387	RT#3, Charlotte, NC
*Griesmer, Donald Robert	JO	NE	1615 Van Dyke	Te-41806	11472 Whithorn, Detroit, Mich.
Griffin, Allender M. Jr.	SO	JFC	Syme		317 N. Edgewater, Greensboro, NC
Griffin, Billy Joe	SR	TX	602 Tilden	Te-25344	Box 84, Marshville, NC
Griffin, Charles Roy Jr.	JO	EE	Syme	Te-29150	Pinebluffs, NC
*Griffin, Daniel Martin	SO	EE	103, Vetville	Te-23483	RT#4, Box 70, Lenoir, NC
Griffin, Edward Vance Jr.	SR	WPM	1720 Hillsboro	Te-40451	Box 354, Nashville, NC
*Griffin, Elmo Lloyd					603 Stacy, Raleigh, NC
*Griffin, Eugene L. Jr.	JO	ME	2410 Wesley	Te-45653	
*Griffin, Joe T.	SR	AED			Louisburg, NC
Griffin, Lonnie Jasper	SO	TX	Owen		503 N. McLelean, Kinston, NC
Griffin, Marrie C.	SO	AG	Tucker		RT#1, Robertsonville, NC
Griffin, Max V.	FR	EE	Syme	Te-29421	RT#3, Dunn, NC
Griffis, Richard H.	FR	AG	51 Dixie Dr.,	Te-31965	51 Dixie Dr., Raleigh, NC
Griffith, Dewey M.	SO	MEA	Tucker	Te-29388	111 N. Eastern, Greenville, NC
*Grimes, Jesse F.	GR	AED			RT#2, Pikeville, NC
Grimmer, Harry C.	FR	IE	1408 Hillsboro	Te-22262	Willard, NC
Griswold, Collier J.	JM	HAC		Te-34593	Nazareth, NC
Griswold, Wm. J.	JM	TX	4701 Western Blvd.	Te-34771	1507 W. 4th Street, Durham, NC
*Groce, James Frank	JR	MEA	Tucker	Te-29323	156 Rosedale, Winston-Salem, NC
Groce, Thomas A. Jrd.	FR	CHE	2314 Hillsboro	Te-34106	Asheville, NC
Grogan, James R.	FR	MEA	Bagwell		124 Annruston, Reidsville, NC
Gross, Chris	SO	NE	Owen		Wilmington, NC
Gross, Marshall E.	SO	EE	Hawthorne Dr. 115	Te-43854	29 Austin, Asheville, NC
Grover, Elliott, B.	SR	ME	34E House	Te-34808	804 Lake Boone Tr., Raleigh, NC
Grund, John E.	GR	NE	3418 Churchill	Te-47462	RT#3, Box 111, Dallas Oregon
Grunfeld, Albert J.	SR	TX	130 Hawthorne	Te-43725	930 Harrison, Scranton, Pa.
Guerrino, Joseph A.	FR	ARC	Syme		Milford, Mass.
Guerrieri, Anthony M.					
Guerrieri, Thomas J.	JR	IRR	Becton	Te-29256	723 Jones, N. Braddock, Pa.
*Guess, James Goss					2722, Fairview Rd., Raleigh, NC
Guffey, Wm. Robert	FR	ME	Becton	Te-29334	2707 Richard, Greensboro, NC
Guner, Nehmet Irfan	SR	NE	Berry		Zonguldak, Turkey
Gunn, Robert W.			2601 Vanderbuilt		Charlotte, NC
*Gupton, Charles C.	JR	CBC	216 Elm		Box 55, Norlina, NC
Gupton, Creighton Lee	JO	AED	Watauga		RT#1, Castalia, NC
Gupton, Ollie Joseph	JO	AG	Bagwell		Wood, NC
*Gurganus, Ralph F.	JR	FCM	29H, Vetville		RT#1, Jacksonville, NC
Gurkin, James H.	JO	WPM	Tucker	Te-29387	RPD#1, Williamston, NC
*Gurley, Edward D.	SR	ME	22C, Vetville	Te-33467	RT#2, Bostic, NC
Gurley, John Rex, Jr.	JR	MEA	Turlington		409 Price, Forest City, NC
Gurley, Lawrence Ray	JR	CHE	104 Dixie Trail	Te-23558	312 Grantham, Goldsboro, NC
Gurley, Nestus H. Jr.	FR	ME	Tucker	Te-29367	1341 Seminole, Greensboro, NC
Gurley, Patrick T.	SO	FOR	Bagwell		P.O. Box 4, Seven Springs, NC
Gurley, Richard N.	JM	CHE	Welch	Te-29119	608 W. 8th. Newton, NC
Guthrie, Wm. H.	SO	MEA	118 Hillcrest	Te-23271	1220 Hill, Durham, NC
Guth, Wendell Lee	JO	MEA	2226 Hillsboro		RT#2, Elkin, NC
*Guthrie, Norman E.	SR	CE	#4, 510 Tilden	Te-38487	1728 Lee N. Salisbury, NC
Guthrie, Morris, R.	JR	ARC	Fourth #205	Te-29149	Kingsport, Tenn.
Gutierrez, Carlos Dario	FR	CHE	Tucker		Mexico, City, Mexico
*Gutierrez Elsa Lapuz	HS		122 Ashe		Rizal, P.I.
*Gutierrez, Jose S.	GR	EYT	122 Ashe		Rizal, P.I.
Guy, Charles Allen	SO	WCM	2209J Hope St.		RT#3, Box 14, Fayetteville, NC
*Guzman, Miguel Angel	GR		12 Patterson		Guatemala, C.A.
Gualtney, James Henry	SO	ME	309 N. King Charles	Te-31121	Durham, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Hass, Michael A.	FR	E	Turlington	Te-29192	Demarest, NJ
Habib, Hasday	SO	TX	Watauga	Te-29132	Habana, Cuba
Hackney, Hoyt W.	FR	IE	Rawwell	Te-29131	Sanford, NC
*Hackson, Norman D.	2R	MT	2213 Dixie Trail	Te-29294	RT#1, Lost Creek, W.Va.
*Haddock, Wm. R.					719 Chamberlain, Raleigh, NC
*Hadley, Robert C.	JR	WFM	905 Tower		205 Beall, Lenoir, NC
Haffer, Clifford Allen	SR	IA	Owen		1934 Wilbraham, Middletown, O.
Haffer, Donald W.	FR	IRR	Owen	Te-49836	Port Clinton, Pa.
Haffer, Gunter B.	FR	EE	Syme	T2-29222	P.O. Box 656, Louisburg, NC
*Hafley, Wm. LeRoy	GR	FOR	UK44, Vetsville	Te-22298	RT#1, Reidsville, Pa.
Hager, Simon B.	FR	CE	Syme	Te-29222	RT#1, Stanley, Pa.
Hagler, Donald O.			1312 Courtland		630 Yale, Bartlesville, Okla.
Hagler, Gerald E.	JR	CHE	130 Woodburn	Te-30083	56 Woodrow, Belmont, NC
Haig, Wm. Watson	FR	IRR	Owen		1234 W. Argyle, Chicago, Ill.
Hagwood, Derie G.					1301 Rhamkatte Rd., Raleigh, NC
Hagwood, Robert L.					Kingstree, SC.
Hagwood, Charles McD.	SO	CHE	Syme		RFD#1, Youngsville, NC
*Haidler, Wm. B.	SR	NE	923 St. Mary	Te-48356	518 N. 7th Ann Arbor, Mich.
Haigler, John Neil Jr.	FR	PSC	Syme		Monroe, NC
Hainley, Bruce Thomas	SC	TX	Owen		105 Paxson, Schmykill Haven, Pa.
*Hair, George Milton	JR	EE	Syme		343 Person, Fayetteville, NC
*Haire, Roy L.	DM	JR	Syme	Te-45080	2402 Everett, Raleigh, NC
*Hairst, Wm. Johnny	JR	EE	Tucker	Te-29367	304 E. South, Albemarle, NC
Hales, Edmond E.	FR	ARC	Syme	Te-29222	304 M. Herman, Goldsboro, NC
*Hall, Billy C.	GR	IPS			2951 Winchester, Raleigh, NC
*Hall, Charles M.	SO	CE	718 Rosemont	Te-41143	210 W. Harnett, Benson, NC
Hall, Charles Roy	FR	TX	Bagwell	Te-49151	East Marion, Marion, NC
Hall, David John	JR	ARC	Berry	Te-29363	138 Woodbury, Syosset, L.I., NY
Hall, James Allen	SO	EE	Becton	Te-29363	Box 36, Halifax, Va.
Hall, James Henry	FR	AG	Becton	Te-29256	RFD#1, Willard, NC
Hall, Joseph K.			2514 Clark		307 Victoria, Greensboro, NC
Hall, Paige Nelson	SR	ME	Welch		Box 338, Mt. Holly, NC
Hall, Ray Morton	FR	ARC	Owen	Te-29142	Port Allery, Pa.
Hall, Wilken S.	SC	EE	Syme		Charlotte, NC
Hall, Wm. A. Jr.	SO	TX	3414 Hillsboro	Te-14498	349 7th NW, Hickory, NC
*Hall, Wm. Alvin	SR	ME	RT#4, Raleigh	Te-49151	1507 Hanover, Raleigh, NC
Hallman, George Wayne	FR	ME	Tucker	Te-39881	2146 Princeton, Charlotte, NC
Hamad, Awil Mohamad	SO	CE	Berry	Te-49739	436 M. Mercer, Rocky Mount, NC
Hamad, Ghazi Ismail	FR	ME	Berry		436 M. Mercer, Rocky Mount, NC
Hamby, James C.	SR	CE	Tucker		466 22nd. NW, Hickory, NC
*Hamby, Rhodney T.	JR	ME			600 New River, Jacksonville, NC
Hamilton, Cecil Dane			Tucker		Morganton, NC
Hamilton, Henry Redd	SO	NE		Te-29186	103 N. Oak, Greensboro, NC
*Hamilton, John Robert			UK23, Vetsville		1429 Alleghany, Atlanta, Ga.
*Hamilton, Vance	JR	AED	123 Ashe		123 Ashe, Raleigh, NC
*Hamilton, Walter Wm.	JR	HAC	21P, Vetsville		713, South St. Gastonia, NC
Hamm, John Jasper Jr.	FR	MAG	Berry		2338 S. Alston, Durham, NC
Hamme, John Lee	SR	CE	Bagwell		RT#2, Warrenton, NC
Hammer, Charles Wayne	SO	TX	Bagwell		517 Chatham, Siler City, NC
Hammett, Howard P. Jr.	FR	EE	Owen	Te-29410	14, P.O. Box 14, Jamestown, NC
*Hammit, Arthur James	SO	ARC	815 C. Daniels		614 Hillcrest, Gastonia, NC
Hammond, Henry Clayton	JR	LA	118 Woodburn		120 Judd, Fayetteville, NC
Hammond, Larry Wayne	JR	CHE	801 W. Morgan		Box 484, Hamlet, NC
Hammond, Wayne H.	SO	CE	2308A Wyrd		RT#4, Asheboro, NC
Hammond, Wilfred Allen	SO	CE	Tucker		Farmer, NC
Hammond, Wm. Henry Jr.		EE	Owen		Box 67, Trenton, NC
Hamner, Wilbourne E.			Box 5072		2400 Delta Dr., Raleigh, NC
Hampton, Davy Gray	SR	IE	2-4 Person St.		Winston-Salem, NC
Hampton, George E.	FR	NE	2712 Vanderbilt	Te-21952	Signal Mtn. Tenn.
Hampton, Kenneth W.	JR	MEA	Berry		55 Longview, Asheville, NC
Hamrick, Joe W.	JR	TX	Welch		Box 40, Mountain Rock, NC
Hamrick, Joseph M.	SC	ATP	Syme	Te-29421	RFD#3, Shelby, NC
Hamrick, Max Ray	FR	ARC	Syme	Te-29288	902 Penn. Spindale, NC
*Hancock, Harvey Gray			Box 5662 State		Winston-Salem, NC
*Haney, Billy M.	SR	ME	602 S. Boylan	Te-49482	RT#3, Canton, NC
*Haney, Charles Lewis				Te-49104	2708 Van Dyke, Raleigh, NC
*Haney, James Thomas	JR	CE	34, Shelton Apts	Te-49498	RT#1, Box 144, Charlotte, NC
Haney, Joseph D.	JR	CE	3414 Hillsboro		2113 Colony, Charlotte, NC
Hanford, Ransom, Billy	FR	ME		Te-40525	1413 Beaver Dam Dr., Raleigh, NC
*Hanford, Rayvine	FR	NE		Te-40525	1413 Beaver Dam Dr., Raleigh, NC
*Hannah, Charles Willard	FR	WE	13P., Vetsville	Te-42496	RT#2, Clyde, NC
*Hannah, Harold Dean	SR	POM	Avent Ferry Rd.	Te-37304	Yaterville, NC
Hannah, Joseph L.	JR	MEA	Berry		211 Main, Waynesville, NC
Hanrahan, Kirkwood W.	SO	ABC	16 Henderson	Te-29877	1130 26th, Newport News, Va.
Hanrahan, Wm. Francis	JR	CE	Alexander	Te-29349	Oyster Bay, NY
Hansen, David	FR	CHE	Watauga		Mechanic St., Hoosick Falls, NY
Hapward, Richard H. Jr.	SR	AC	2400 Delta Dr.	Te-28793	135 Weaver, Bloomfield, N.J.
*Hardesty, Jerry W.	JR	AG	5054 Coolidge	Te-91978	5053 Coolidge, Chapel Hill, NC
Harding, Charles B.	JR	POM	1710 Hillsboro	Te-42831	110 State, Sports, Va.
*Harding, Roy N.	SO	CE	21A, Vetsville	Te-29256	21A, Vetsville, Raleigh, NC
Harding, Wm. Robert	SR	ME	Becton	Te-29531	RFD#1, Chocowinity, NC
Hardister, Wm. A. Jr.	SR	ME	1620 Hillsboro	Te-19405	1104 W. Mt. N. Williamsboro, NC
*Hardy, Charles Richard	SR	POM	5B, Vetsville	Te-49451	203 South St., Franklin, NC
Harcy, John B. Jr.	JR	AEC	1720 Hillsboro		2400 W. Club Blvd., Durham, NC
*Hardy, Thomas L.	FR	CE	1201 Alma St.	Te-29222	1201 Alma St., Durham, NC
Hardy, Wilbur E.	FR	EE	Syme	Te-49968	P.O. Box 154, Dobson, NC
*Hardy, Wm. Keith	SO	EE	2321 McMullan Circle	Te-24887	106 S. Independent, Kinston, NC
*Hargett, Warren E.	PR	ARC	3111 Raymond		207 W. Lenoir, Kinston, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Hargrove, Norwood C.	JR	AED	Alexander	Te-49746	RT#5, Clinton, NC
Hargrove, Thomas M.	JR	DE	2809 O'Berry		RT#2, Graham, NC
Haritos, Tasso	FR	ME	Tucker House	Te-29387	100 Prospect, Hackensack, NJ
Harrison, Walter Elyse	FR	FR	1307 Dogwood	Te-45594	P.O. Box 184, Valparaiso, Fla.
Harley, Michael Arlen	FR	EE	Bagwell	Te-49151	1314 Belleau Wood, Winston-Salem, NC
Harmer, David G.	FR	EE	Owen	Te-29437	431 Bedford, Charlotte, NC
Hasper, John E.	SO	ME	1118 Harp	Te-38081	908 Market, Burlington, NC
Harter, Sanford C.3rd.	SO	FR	2512 Clark		920 Avon Rd., Winston-Salem, NC
Harter, Wayne Mitchell	FR	DE	Tucker	Te-29186	Albertson, NC
Harper, Willis Harold	SO	EE	Becton	Te-29372	211 Jefferson, Rocky Mount, NC
Harrell, Billy Niles	FR	AI	Owen		Wilson, NC
Harrell, Geo. Oliver	PR	DE	Page Hall		804 N. Endor, Sanford, NC
Harrell, Jesse W.	JR	MEA	365, Vetville	Te-47998	Box 583 Roanoke Rapids, NC
Harrell, Marvin H.	FR	AG	3300 Hall Place	Te-29938	3300 Hall Place, Raleigh, NC
Harrell, Robert E.	SO	DE	Syme		Roanoke Rapids, NC
Harrell, Ronald G.	JR	EE	Gold		440 N. Doughty, Rocky Mount, NC
Harrell, Wm. Albert	JR	ME	135, Vetville	Te-48530	135, Vetville, Raleigh, NC
Harnes, Robert Wm.	FR	EE	Lakes Mtr. Court		3213 Wilkinson, Charlotte, NC
Harriger, John E.	SO	IAH	Turlington		319 Taylor, Falls Creek, Pa.
Harrill, Bobby B.	SO	EE	620 Wilane	Te-26096	Forest City, NC
Harrill, James W.	FR	IAH	Syme	Te-26543	1607 Irdell Dr., Raleigh, NC
Harriss, Charles Hal	FR	EE	Syme		St. Pauls, NC
Harrington, Jerry R.	FR	EE	Syme		Polkton, NC
Harrington, Robert Lee	FR	DE	E. Stadium	Te-49803	208 N. George, Goldsboro, NC
Harrington, Andy Lee	FR	ME	Syme		2219 Kannapolis, Concord, NC
Harris, Alva H.	FR	IAH	Owen	Te-28086	UK25, Vetville, Raleigh, NC
Harrison, Bruce A.	FR	IAH	Owen	Te-29437	Quitman, Ia.
Harris, Carroll D.	JR	DE	2405 Clark	Te-26543	Box 329 RT#5, Asheville, NC
Harris, Cecil Powell	JR	ME	2616 Garner Rd.		Box 2, Drexel, NC
Harris, Clarence L.	JR	AED	Tucker	Te-36010	Kennington Rd., Raleigh, NC
Harris, Claude M. Jr.	SO	ME	10 Enterprise		57 First St., Biltmore, NC
Harris, Edwin F. Jr.	FR	AG	106 Harrision		124 Circle Ct., Elkin, NC
Harrison, George	JR	EE	Owen	Te-31274	12 N.23rd, Wilmington, NC
Harrison, George A. Jr.	FR	DE	Owen	Te-49836	319 E. Main, Wilmington, NC
Harris, Hal Cook	SO	TC	Owen	Te-29464	Box 2502, Raleigh, NC
Harris, Harold B.	FR	AG	Owen	Te-31370	Box 214, Mt. Gilead, NC
Harris, Herbert Hunter	FR	TX	Tucker		2723 Coolee Dr., Raleigh, NC
Harris, James A.	JR	FR	22104 Hope St.	Te-4151	2535 Portland, Charlotte, NC
Harris, Jerry S.	JR	DE	Bagwell	Te-49151	911 Lookland, Winston-Salem, NC
Harris, John Henry	SO	NE	Syme	Te-29150	331 N. Harvey, Washington, NC
Harris, Lawrence Jr.	JR	AG	222 Hillcrest	Te-23429	525 W. 34th, Norfolk, Va.
Harris, Lyman B. Jr.	JR	ME	198, Vetville	Te-29290	429 N. Main, Wake Forest, NC
Harris, Marvin E.	SO	AG	Owen		Bruton St., Mt. Gilead, NC
Harris, Merrell W.	FR	AG	Syme	Te-29150	RT#4, Box 138, Louisburg, NC
Harris, Richard L.	FR	IAH	Welch		114, Selma, NC
Harrison, Andrew G.	FR	FOH	Bagwell	Te-49151	1200 Tarboro, Rocky Mount, NC
Harrison, Robert L.	FR	AG	Bagwell	Te-41285	514 N. Edgeworth, Greensboro, NC
Harrison, Robert Tripp Jr.	FR	AG	Bagwell		216 Park, Raleigh, NC
Harrison, Thomas Edison	FR	EM	Owen	Te-44725	RT#1, Raleigh, NC
Hart, Keith A.	JR	ME	Turlington		2110 Tudor Pl., Raleigh, NC
Hart, Berry T.	JR	ME	Turlington		311 E. Vine, Goldsboro, NC
Hart, Charles Hubert	JR	AG	Turlington		RT#3, Ayden, NC
Hart, Clarence Arthur	JR	WT	3306 Hillsboro	Te-40402	3306 Hillsboro, Raleigh, NC
Hart, Brenda Avey	JR	AG	1005 Westwood	Te-48100	RT#2, Lenoir, NC
Hart, Franklin D.	SO	ME	Bagwell		RT#2, Angier, NC
Hart, Larry G.	JR	DE	Bagwell		RT#10 Box 262, Greensboro, NC
Hart, Neil Douglas	SO	DE	6 Ferndale Lane		500 Wilson, Kinston, NC
Hart, Ralph W.	FR	EE	Owen	Te-29464	Lansing, NC
Hart, Roger Lane	SO	AG	808 Peace Terrace		P.O. Box 4961, Granite Falls, NC
Hartman, David M.	JR	AG	Owen	Te-46313	2413 Greenway Terrace, Raleigh, NC
Harton, Donald Lee	SO	ME	Owen	Te-29252	2206 Fairview Rd, Raleigh, NC
Hartman, George Wm.	FR	NE	Owen		932 4th, NW, Hickory, NC
Harvat, Daniel H. Jr.	SO	DE	2426 1/2 Hillsboro		1204 Hillsboro, Raleigh, NC
Harvey, James Robert	FR	DE	2426 1/2 Hillsboro		2105 Nelson, Raleigh, NC
Harvey, Richard McE.	SO	DE	2426 1/2 Hillsboro		1501 Branch, Wilson, NC
Harvin, Glenn B. Jr.	SO	DE	2700 Bedford		2504 Greenway, Raleigh, NC
Harward, Hurley L.	JR	HAC	2400 Delta Dr.	Te-27793	506 W. Colonial, Elizabeth City, NC
Harward, Joseph H.	FR	IE	Tucker	Te-29387	606 W. Colonial, Elizabeth City, NC
Harwell, Boyce W.	FR	DE	Owen		South College, Newton, NC
Harwell, Wm. H.	FR	DE	Gold	Te-29263	RT#2, Box 478, Concord, NC
Harrison, Syed Ahmed	FR	NE	Gold		Pakistan
Hassan, Zafar	FR	EE	#2 Logan Ct.	Te-46591	409 W. Park Dr., Raleigh, NC
Hassell, Russell E.	JR	TX	Berry		P.O. Box 55, Jamestown, NC
Hastings, Robert P.	JR	TX	980 Wilmington Ter.		RFD#1 Lawdale, NC
Hasty, Dwight W.	JR	ME	Welch	Te-29119	732 Prince, Laurinburg, NC
Hatch, Frederick P. Jr.	FR	ME	Watauga		Montague Trailer Park, Raleigh, NC
Hatch, George Glenn	FR	EE	Becton	Te-29372	Box 288, Mt. Olive, NC
Hatch, Horace Hoover	FR	AG	Owen	Te-29410	P.O. Box 288, Mt. Olive, NC
Hatcher, Austin Jr.	FR	AG	Owen	Te-29219	Laurinburg, NC
Hatcher, Glen C.	FR	TX	31B, Vetville	Te-49836	RT#2, Selma, NC
Hatcher, Ray Lee	FR	FOH	Owen		1012 Alexander, Statesville, NC
Hatley, Edward W.	SO	IA	Becton	Te-49739	RT#1, Box 324, Oakboro, NC
Hatley, Larry H.	JR	AG	Tucker	Te-20323	3709 Cameron Ave, Greensboro, NC
Hatley, Oscar E.	JR	AG	Syme	Te-29222	1511 Jarvis, Winston-Salem, NC
Hattaway, Albert Mayo	FR	AG	2713 Vanderbilt	Te-34916	RT#1, Advance, NC
Hauser, John A.	JR	IAH	1620 Hillsboro	Te-29531	RR#3, Rockford, NC
Havlicok, Joseph Jr.	JR	AG	1620 Hillsboro		1735 Brooks, Raleigh, NC
Hawkins, Gerald G.	JR	IAH	1620 Hillsboro		

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Hawkins, Herbert B.	SO	WCM			1735 Brooks, Raleigh, NC
*Hawkins, James R. Jr.	SO	EE	1341 Chester	Te-36397	1539 Ideal Way, Charlotte, NC
*Hawkins, Marion A.	SR	AGY	26C, Vetville	Te-42627	RF#1, Box 62, Sandy Ridge, NC
*Hawkins, Thomas B. Jr.	SR	IE	Gold		26 Summit, Wilmington, NC
Hawkins, Wm. Rainey Jr.	BO	TX	Turlington		2017 WaMa, Durham, NC
Hawkins, Wm. Harold	SR	TX	308 Horne	Te-27050	M-1, Beverly Apts, Asheville, NC
Hawn, Kenneth Lee	FR	FOR	Owen		331 Circle Ave, Charlotte, NC
Haworth, David S. 3rd.	FR	CE	2405 Clark	Te-26543	307 E. 28th, Lumberton, NC
Hay, Thomas R. Jr.	FR	EE	Owen		Andrews, NC
*Hayes, Harold G.	FR	AED		Te-21387	1710 Park Dr., Raleigh, NC
*Hayes, Joseph C.	FR	E	Syme		Manteo, NC
*Hayes, Manley Harris	SO	HAC	15 Stadium	Te-19803	314 High, Hamlet, NC
*Haynes, Jimmy W.				Te-43180	994 Harp Terrace, Raleigh, NC
Haynes, Jonathan	FR	TX	Bagwell		31 Hoxie, W. Warwick, RI.
Haynes, Larry E.	JR	NE	Bagwell		20 Farria, Shelby, NC
Hays, James M.	SO	PPT	Sigma Nu Frat.	Te-29531	317 Chase, Hamilton, O.
*Haywood, Tommy Joe	JR	AED	Methodist Orp.	Te-11091	RT#9, Box 241, Monroe, NC
Hayworth, Frank O.	SO	DN	217 Beeton		225 Elm, Salisbury, NC
Hayworth, Thomas L.	JR	WPM	Tucker		RT#1, High Point, NC
Head, Max A.	FR	EE	Bagwell		Box 246, Matthews, NC
*Heafner, Donald O.	JR	THE	32A, Vetville	Te-29219	Box 48, Belmont, NC
Heafner, John F.	FR	NE	Owen		Box 326, Cherryville, NC
Heath, Forrest T.	JR	AGE	15 Maiden Lane		42B, Newn, NC
*Heath, John C.	JR	TX	801 C, Daniels	Te-30807	610 Sacmetto, Spartanburg, S.C.
Heath, Winfred A.	JR	ME	2612 Clark	Te-30671	1405 Howard, Kinston, NC
Hedgecock, Richard Lee	FR	CEC	Becton		RT#1, Asheboro, NC
Hedgepeth, Lloyd M.	JR	HAC	Becton	Te-29334	Rocky Mount, NC
Hedrick, Dale B.	JR	AG	Owen		RT#6, Lexington, NC
Hedrick, George B. Jr.	SO	ME	Tucker		910 Johnson, High Point, NC
Heffner, Phillip A.	FR	NE	Owen	Te-49836	111 S. Main, Maiden, NC
Hefner, Raymond J.	JR	ATY	Gold	Te-29263	Beebe, Arkansas
Heilig, Charles S.	SO	ME	4 Stadium	Te-49803	513 S. Jackson, Salisbury, NC
Heinbockel, John Henry	JR	NE	1620 Hillsboro	Te-29531	Mannasset, NY
Heinsman, David A.	SR	CHE	2512 Clark	Te-30443	
Helm, Joseph A.	SR	ME	3216 Bedford	Te-32473	RF#2, Box Sinks, Grove, NC
Helms, A. Lynn	FR	ME	Bagwell	Te-29131	RF#2, Box 215, Charlotte, NC
Helms, Guy A.	JR	WPM	Tucker		133 Cedar, Concord, NC
Helms, Steven A.	JR	NE	Alexander	Te-29349	524 Ashlander, Greensboro, NC
Helton, Benny "C."	JR	EE	2210 Hope	Te-28971	6 Rhodes Park, Hendersonville, NC
Hembree, Stephen C.	FR	EE	Bagwell	Te-29412	RT#1, Murphy, NC
Henderson, Barry C.	JR	NE	Tucker		526 3rd, Hickory, NC
Henderson, George C.	SO	FOR	Syme	Te-29288	Box 796, Manteo, NC
*Henderson, Hugh P.	JR	EE	3109 Hillsboro		3109 Hillsboro, Raleigh, NC
Henderson, Kenneth Dean	SO	FOR	305 Owen		311 Ala. St., Spindale, N. C.
Henderson, Leo, Jr.	JR	NE	Owen	Te-29435	Washington, D.C.
Henderson, Otis Haywood	SR	ME	Syme		828 Sedgewild Rd., Charlotte, NC
Henderson, Thomas Otis	FR	A3C	Tucker	Te-29387	Hickory, NC
*Henderson, William Dean					Apt. D-6, Raleigh, NC
Hendren, Roy William	SO	CE	Kelch	Te-29119	Asheville, N. C.
*Hendrix, Donald Edward	JR	ME	7-D Vetville	Te-29119	112 N. Cedar St., Charlotte, NC
*Hendrix, Floyd Fuller, Jr.	SR	GP	9024 Brooks Ave.	Te-42085	9023 Brooks Ave., Raleigh, NC
Hendrix, James William	SO	AG	Owen	Te-18093	2101 28ans Tr. Greenville, N. C.
Henley, Allen John	JR	IRR	Becton	Te-20410	Willis Ave., Merrick, N. Y.
Henley, Amos Brooks	SO	ME	Owen	Te-20437	Box 8, Linville, NC
Henley, Hervert Carlisle	FR	NE	Syme	Te-29288	Rt. 1, Mount Hill, NC
*Hennessee, Dewey Wakefield				19746	329 Meredith St., Raleigh, NC
Hennings, Joe Bennett	SO	CE	Owen	Te-29836	Rt. 2, East Bend, NC
Henry, Edmund Lee	SO	CHE	11 Maiden Lane	49901	82 Blue Ridge, Asheville, NC
Henson, Douglas Bradley	JR	AT		Te-32878	Vilas, NC
*Henson, Wiley Hix, Jr.	SR	AGE			Rt. 1, Ellijay, Ga.
*Herbert, John Glenn	SO	CE	25-E Vetville		Marti 56, Colon, Cuba
Heres, Garcia Celestino	JR	ME	Box 5712 NC St. Station	Te-29268	Route 10, Charlotte, NC
Herrin, Albert Franklin	FR	CE	328 Alexander	Te-20268	Albemarle, N. C.
Herrin, Benny Wilson	JR	HAC	Syme	Te-19279	Route 4, Wilson, NC
Herring, Malcolm LaRoy	SO	IE	Turlington	Te-10435	Route 3, LaGrange, NC
Herring, Thomas Woodrow	SO	CE	Owen	Te-10435	Gaston, NC
Herring, William Henry, Jr.	SR	CE	7 Enterprise St.	Te-10435	513 Gardner, Raleigh, N.C.
*Hershey, Terry Lee	JR	NE	519 Gardner	Te-9421	Box 24, Roxboro, NC
Hester, Phillip Gordon	SO	WPM	Syme		
Hensen, Anne Drayton	SR	IN			Wilmington, N. C.
Houstess, James McRae	SR	TX	110 Woodburn Rd		Box 675, Shalotte, N.C.
Hewett, James Daniel	FR	NE	Turlington		
Hewitt, Richard Dewitt			2405 Clark Ave.		W.6th St., Newton, NC
Hewitt, Thomas Lee	FR	ME	Syme	Te-29033	
*Heyman, Charles Simon, Jr.	SR	HMM	1615 Hillsboro	Te-39047	1823 Arlington St., Raleigh, NC
Hibbard, Robert Freeman	SO	HAC	1823 Arlington		100 Gardner St., Raleigh, NC
*Hickey, Richard Patrick	SO	EE	Syme	Te-29222	New Bern, NC
Hickman, Frank George	SO	CON	11-B Vetville	Te-3989	415 Dixie Tr. Raleigh, NC
*Hickman, John Franklin	SO	CE	Syme		Wendland, NC
Hicks, Gene C.	FR	ARC			411 Lake Anne Trail, Raleigh, NC
Hicks, James R.	FR	HBT	Old Greenhouse	Te-2913	RT#3, Lawndale, NC
Hicks, Hamilton	SO	IE	Tucker		411 Lake Anne Trail, Raleigh, NC
Hicks, Harold C.	SR	TI	1700 Hillsboro		411 Lake Anne Trail, Raleigh, NC
Hicks, Lewis P.	FR	CE	Bagwell		Wise, NC
Hicks, Montague H. Jr.	FR	CHE	Owen		2713 Lockmore, Maleigh, NC
Higdon, Thomas N.	FR	ARC	Tucker		Franklin, NC
Higgins, Edwin A.	FR	CE	Syme		415 Virginia, Chase City, Va.
Higgins, Wm. Henry	FR	CE	Tucker		1010 Willowbrook, Greensboro, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*High, Harold E.	SO	TX	Becton		1009 S. Person, Raleigh, NC
H. Lal, Ahmad Afif	JR	FCM		Te- 28963	Alleppe, Syria
*Hilbourn, Theodore G. 3rd.	SO	CEC	120, Vetville		2206 Hope, Raleigh, NC
*Hilburn, David B. Jr.	FR	NE	Owen	Te-29464	Bladenboro, NC
Hill, Al Fallon	SO	IE	Becton	Te-29256	215 Acadent, Roxboro, NC
Hill, Charles Henry	SO	EE	Becton	Te-29334	701 Gordon, Kinston, NC
Hill, Horace Leon	FR	ARC	Tucker		846 Churchhill, Shelby, NC
Hill, Hubert F. Jr.	FR	AI	Stadium	Te-49803	2180 Gaston, Winston-Salem, NC
Hill, Jackie Vann	FR	AI	Stadium	Te-49739	RT#1, Clinton, NC
Hill, James Tull	FR	EE	Tucker		RT#1, Hookentow, NC
Hill, Jerrold Watt	GR	AGY			405 Lindsay, High Point, NC
*Hill, Kenneth Lee	SO	ME	Tucker		P.O. Box 203, Knightdale, NC
Hill, Lehart Woodword	FR	NE	Becton	Te-29372	309 Hancock, New Bern, NC
Hill, Leslie E. Jr.	SO	AG	Owen	Te-29464	Box 68, Elm City, NC
Hill, Richard Ray Jr.	SR	AGY	1827 1/2 Arlington	Te-49687	RT#1, Youngsville, NC
*Hill, Robert C.	FR	EE	Owen	Te-29410	North St., Oxford, NC
Hill, Roger Post	FR	ARC	Bagwell		Pink Hill, NC
Hill, Wm. Carroll	FR	FCM	210 N. Harrington	Te-28541	216 E. Vernon, Kinston, NC
Hill, Wm. F.	JO	EE	Berry		Box 465, Florence Ala.
Hills, Charles Cross	JR	EE	2314 Hillsboro	Te-34106	P.O. Box 333, Georgetown, S.C.
Himmelwright, James R.	JR	EE	Syme		Matawan, N.J.
Hines, Frederick Lester	JR	ARC	1421 Beaver Dam		Avery Garner, NC
Hines, Jack Donald	SO	AG	2301 Churchhill	Te-42640	405 Harding, Spindale, NC
Hinkel, Emory E. Jr.	JR	ARC	2301 Churchhill	Te-32138	1821 Cumberland, Charlotte, NC
*Hinrichs, Carl M.	SO	AGE	Turlington		Box 1045, Tryon, NC
*Hinschaw, Jerry L.	FR	FOR	Owen	Te-29464	1500 Andover, Greensboro, NC
Hinson, Aaron Yates	FR	MEA	Tucker	Te-29387	Moss, Tenn.
Hinson, Clyde Keith	FR	EE	Becton	Te-29392	Oakboro, NC
Hinson, Edward Reid	FR	EE	Owen		1421 Woodland, Charlotte, NC
Hinson, Herman C.	FR	EE	Owen		RT#2, Matthews, NC
Hinson, Jack D.	FR	EE	Owen		Fair Bluff, NC
*Hinson, James Baxter	FR	MEA	Owen		307 Chamberlain, Raleigh, NC
Hinson, James Kirby	SR	TX	Owen		53 West Ave., Wadesboro, NC
Hinson, John C.	SO	HAC	918 Harp Terrace	Te-48278	102 Morris, Monroe, NC
*Hinton, John W.	SR	ARC	F-1, Shelton Apts	Te-42728	1311 W. Thomas, Rocky Mount, NC
*Hipp, David E. Jr.	JR	EE	2912 O'Berry	Te-42410	F-1, Shelton Apts, Raleigh, NC
*Hipp, Walter N. Jr.	JR	IE	115 Williams, Cary	Ho-75153	625 2nd Wb, Hickory, NC
*Hissada, Juan Edwards	SR	TX	7 Enterprise	Te-40435	Catawi, Bolivia, S.A.
Hitchcock, Donald E.	SO	EE	Tucker	Te-29387	1922 Birchcrest, Charlotte, NC
Hiter, Sylvester Wm.	JR	ARC	Welch		412 1st. Ave W. Hendersonville, NC
Hobson, George B. Jr.	SO	ME	Bagwell	Te-29131	2515 Belvedere, Charlotte, NC
Hoch, Robert L.	SO	TC	RT#1, Cary		191 Forest Hill, Asheville, NC
*Hodge, Willie Lee	FR	ARC	Owen	Te-29252	RT#3, Rutherfordon, NC
Hodges, Wm. Parker	FR	AI	C51 College Dairy	Te-29763	68 Edgelawn, Asheville, NC
Hodgin, Bryon R.	SR	CE	615 N Boundary	Te-22200	Box 495, Guilford, College, NC
*Hoffman, Emanuel Kenneth	FR	DN	215 Alexander	Te-9746	Route 1, Gold Hill, N. C.
Hoffman, Kenneth Reid	JR	GEE	20-A Vetville		Coolee, NC
*Hoffman, Kenneth William	FR	FOR	Alexander	Te-29746	Gloucester Point, VA.
Hoffman, Robert Lewis	SR	CE	3314 Pollock Place	Te-9423	3314 Pollack Place, Raleigh, NC
Hoffman, William Stewart	SO	FOR	130 Hawthorne Rd.	Te-47325	Grand Ave., New York, N. Y.
Hoffmann, Alfred George	FR	EE	117 Bagwell	Te-29412	Graham, N. C.
Hogan, Harvey Theodore, Jr.	FR	EE	Glenwood Gardens		Scarsdale, N. Y.
*Hohns, Charles D.	SO	EE	3014 O'Neil St.		Havelock, NC
*Hoke, Forney Moore	SO	ME	Owen	Te-9437	Route 3, Hickory, NC
Hoke, Larry David	FR	CHE	1606 Benehan		Box 191, Pisgah Forest, NC
Holden, Jesse Tyler	FR	CE	810 Barbour Drive		910 Barbour Drive, Raleigh, NC
Holden, David Arthur	FR	AED	Owen	Te-29242	Sherrills Ford, NC
Holdsclaw, Clifford Wilson	FR	CE	Becton	Te-29256	Route 8, Greensboro, NC
Holleman, Dallas Robert	FR	ME	Becton	Te-29334	Fort Bragg, NC
Hollenbeck, William Jacob	SR	TX	17-A Vetville	Te-45374	Box 73, Ruth, NC
*Holland, Almon Orland	SO	PPT	Gardner Street	Te-25765	Route 1, Franklin, VA.
Holland, Phillip Parker	JR	ARC	30-D Vetville	Te-40100	30-D, Vetville, Raleigh, NC
*Holliday, James Bennett	FR	EE	Tucker	Te-29323	Southern Pines, NC
Holliday, Deryl Burdon	SO	EE	Turlington	Te-29297	Washington, D.C.
Holliday, William Robert	FR	CHE	Becton	Te-29387	Ashokle, NC
Holloman, Lydon Earl	ED		2904 Hillsboro	Te-22654	Fayetteville, NC
Holloway, Margaret Frances	JR	FOR	Owen	Te-20142	Raleigh, NC
*Holloway, William J.	FR	GEE	Tucker	Te-20323	Plymouth, NC
Hollowell, Alfred Ray	FR	CHE	1806 Hillsboro	Te-27565	Lincolnton, NC
Holmes, Allen McRae	JR	TX	117 Forest Rd.	Te-34090	Hertford, NC
Holmes, George McBrayer	FR	EE	1002 Oberlin		Durham, NC
Holmes, John William	FR	CE	1425 Curfman		Henderson, NC
Holmes, Irwin Richard	FR	EE	312 Barwell	Te-49151	Park Road, Charlotte, NC
Holmes, Robert D.	FR	EE	Granville Drive	Te-39956	Granville Drive, Raleigh, NC
Holmes, Roy Elwood, Jr.	FR	MEA	1302 Oberline Road	Te-27030	Durham, NC
Holmes, Stacy Morgan	FR	CHE	2701 Lockmore Drive	Te-24786	2701 Lockmore, Raleigh, NC
Holman, William Chreston	SO	IE	Becton	Te-20334	Mooresville, NC
Holshouser, Robert Jacob	SO	EE	Owen		Salisbury, NC
Holt, Edward Franklin	SO	ME	Owen		Biltmore, NC
Holt, Earl Thomas	JR	ME	Welch	Te-38996	805-B Daniels, Raleigh, NC
Holt, Robert Jack	FR	NE	Becton		Chestnut Hill, Mass.
*Holt, Vernon Emerson	FR	IE	Becton		Rocky Mount, NC
Holton, Quinton	JO	MEA	Daniels St.	Te-29372	Route 3, Hickory, NC
Holt, Robert Sidney	JR	EE	2420 Mayview Ave.	Te-32450	Salisbury, NC
Hondros, James Gus	FR	FOR	Becton	Te-29261	Asheville, NC
*Honeycutt, Bobby Mal	FR	FOR	Becton		
*Honeycutt, Charlie Hamilton	FR	FOR	Becton		
Honeycutt, Chester Arthur	FR	FOR	Becton		

NAME	YN	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Honeycutt, Emmitt Melvin	JK	MEA	1508 Frank St.	Te-29110	Fayetteville, NC
Honeycutt, Ted Wallace	FR	AED	Bagwell	Te-29031	Route 2, Angler, NC
*Honeycutt, William Alfred,					Mooreville, NC
Honeycutt, William Avery		CE	Becton		Route 2, Norwood, NC
Hood, Clarence Elmer	SO	AGE	Becton		Newton
Hooks, Jonathan Winfield	FR	AED	Bagwell	Te-29412	Kenly, NC
Hocmani, Jafar	JR	CE	Watauga	Te-20447	Teheran, Iran
Hopkins, Freddie Eugene	FR	AG	Tucker		Draper, NC
Hopkins, George Louis	FR	DM	Tucker	TE-29254	Greensboro, NC
*Hopkins, John Clinkscaler	JR	IE	Wilmington Terrace	Te-26629	Charlotte, NC
*Hopper, Thomas Harold					Lane Street, Raleigh, NC
Hopper, William Jackson	SO	CE	Tucker		Gastonia, NC
*Hord, Horace Blainey	FR	ME	724 Chamberlain	Te-25656	724, Chamberlain, Raleigh, NC
Hordubay, Edward Paul	JR	TC	Bagwell		Windber, PA.
Horne, Tommy Alton	SO	AED			
Horne, William Henry	SR	EE	Douglas Street		1108 Douglas Street, Raleigh, NC
Horner, George Smauel	SO	ME	Becton		Route 1, Burlington, NC
Horton, Alvin Horace	FR	ARC	Tucker		Hamlet, NC
*Horton, Carl Randolph	SR	IE	36-F Vetville		Leaksville, NC
Horton, Carl Wesley	FR	EE	Owen	Te-29142	Kinston, NC
*Horton, Gattis T.					Box 83, Clayton, NC
Horton, James A.	SO	AGE	Owen	Te-29115	Oriental, NC
Horton, Oscar B.	FR	EE	Becton		
*Horton, Wm. Elijah	SO	EE	413 Gardner	Te-47942	413 Gardner, Raleigh, NC
Horowitz, Harvey Alan	SO	CHE	Tucker		120 Rectory, Oxford, NC
Hoskins, James H.	JO	CEC	Becton	Te-29372	Box 812, Spencer, NC
*Hoskins, Joseph D.	JR	ARC		Te-27379	2184 Park, Raleigh, NC
Hoskins, Richard	SO	ME	Turlington	Te-29297	1006 Clay, New York, NY
Hostetler, David R.	GR	NE		Te-30796	2604 Van Dyke, Raleigh, NC
Hotchins, Andrew J.	FR	MEA	15 Maiden Lane	Te-43374	104 Johnson, Canton, NC
*Houch, Byard Jr.	NE	NE	3104 Raymond		West Jefferson, NC
House, Michael J.	JR	ASP	Bagwell	Te-29131	Bethel, NC
House, Nancy Elizabeth					1318 Canterbury, Raleigh, NC
*House, Navrie B.				Te-48691	426 E. Jones, Raleigh, NC
House, Samuel G.	SO	EE	103 Fourth		RT#4, Lincolnton, NC
*Housey, Charles M.	JR	CE	9 S. East	Te-38255	RT#2, Vale, NC
Houser, S. Lee	SR	HAC	3205 Hillsboro	Te-36901	Box 242, Rural Hall, NC
Houser, James M.	FR	IE	Owen	Te-29410	499 Crescent Hill, Kings Mtn., NC
Houst, John Henry	JR	IRR	Tucker	Te-29367	5005 Oleander, Wilmington, NC
Houston, Oni P. Jr.	SO	CE	222 Hillcrest Rd.	Te-23429	405 N. Center, Mooresville, NC
Houts, Alfred Wm. Jr.	JR	IE	3414 Hillsboro	Te-34808	201 N. Ash, Elizabeth City, NC
Houts, Heywood B.	JR	EE	3414 Hillsboro		201 Ashe, Elizabeth City, NC
Howard, Adrian Leo	FR	CEC	Owen		9100 Patterson, Richmond, Va.
*Howard, Arthur Leon	JR	WPM		Te-35196	76, Vetville, Raleigh, NC
Howard, George Robert Jr.	JR	CHE	120 Hillcrest	Te-26383	2141 Colony Rd., Charlotte, NC
Howard, James R.	JR	TX	284, Vetville		1192 N. Ridge, Kannapolis, NC
*Howard, John E.	JR	TC	32F, Vetville	Te-29219	
Howard, Kenneth C.	FR	CE	Bagwell	Te-29131	934 Forrest, High Point, NC
*Howard, Thomas J.	SR	NE	114 Park	Te-28159	RT#1, Denver, NC
*Howard, Wm. Edward	SR	EE	24 B. Vetville		1192 N. Ridge, Kannapolis, NC
Howe, Kenneth Lee	SO	AI	218 North East	Te-21919	RFD#3, Gastonia, NC
*Howe, Lewis Stillman Jr.	SR	HRT		Te-20479	223 Forest, Raleigh, NC
Howell, Lucy Bruce Jr.	SO	TX	2718 Van Dyke,	Te-21541	East Rockingham, NC
Howell, Marvin E.	FR	AG	220 East Park	Te-20856	RT#3, Williamston, NC
Howell, Melvin E.	FR	AED	Watauga		Tyner, NC
Howell, Joseph D.			2820 Everett		Waynesville, NC
Howell, Ralph G.	FR	E	Owen		440 Plymouth, Winston-Salem, NC
Howell, Robert Smith	FR	MEA	Tucker	Te-29323	Box 127, Robbinsville, NC
Hoyle, David L. 3rd.	FR	AG	Becton		Rt#1, Henderson, NC
Hoyle, Geo. Walter	SO	EE	Becton		P.O. Box 425, Newton, NC
Hubbard, Bob Lynwood	SR	TX	2514 Clark	Te-34522	823 E. 36th, Charlotte, NC
Hubbard, James F.	SO	DN	1715 Park Dr.		808 Cumberland, Fayetteville, NC
Huddins, Hugh D.	FR	CE	Tucker	Te-20323	Fayetteville, NC
Hudson, Arlen G.	SO	EE	Gold	Te-29263	120 E. Station St., Mt. Olive, NC
*Hudson, Ben Avery	FR	TX	Owen	Te-29410	104 Ridge, Kings Mountain, NC
Hudson, Donald Elmer	SR	HRT	Green House		RT#1, Zircon, NC
Hudson, Harry Hood	SO	EE	Owen	Te-29410	RT#3, Wachau, NC
Hudson, Larry Bruce	SR	EE	116 Hawthorne	Te-28406	RT#1, Maiden, NC
Hudson, Lowell Thomas	FR	ME	2004 Hillsboro	Te-21881	RT#2, Waynesville, NC
Hudson, Ned Yaddin	FR	AED	Owen	Te-49836	RT#3, Box 148A, Concord, NC
*Hudson, Samuel T.	FR	POW	7A, Vetville	Te-30097	RT#1, Box 270, Metuchen, NJ
*Hudson, Wm. Lafayette	SR	CE	Welch		RT#2, Box 404, Roanoke, Rapids, NC
Huffman, Daniel K.	FR	CHE	Owen	Te-29410	Box 27, Denton, NC
Huffman, John W.	FR	E	Tucker		104 2nd, Black Mountain, NC
Huffman, John C.	JR	EE	1310 Hillsboro	Te-25897	RT#5, Charlotte, NC
Huffman, Ralph E. Jr.	SO	EE	Turlington		1311 Union Rd, Gastonia, NC
*Huffstetler, James Patrick	SR	EE	428 Wayne Dr.		Council, NC
Huggins, Edward W.	FR	E	Becton		RT#4, Box 145, New Bern, NC
Higbee, Ernest W.	FR	NE	Tucker	Te-29123	14E, Randolph, Shelby, NC
Hughes, Hal E.	JR	CE	Tucker		126 Spruce St. Bedin, NC
Hughes, Joseph Louis Jr.	JR	CHE	2514 Clark	Te-34522	Birth St., Oxford, NC
Hughes, Phillip Leroy	JR	MEA	Tucker	Te-49739	Wendell, NC
Hull, Claud Evans	JR	MEA	Becton		161 Lakes Dr., Mt. Lakes, NJ
Hummel, Charles B.	SR	IE	1620 Hillsboro	Te-29531	
Hummel, Wm. Hicks	SO	TX	1509 Hillsboro	Te-27757	Greensboro, NC
Hunphrey, Van H. Jr.	SR	EE	134 Woodburn Rd.	Te-29288	RT#4, Shelby, NC
Humphries, Ervin Grigg	JR	AGE	Tucker		1128 Kenwood, Winston-Salem, NC
Hundley, Paul Thomas	SO	ME	Owen		P.O. Box 252, Conover, NC
Hunsacker, Worth E. Jr.	JR	CE	116 Hawthorne	Te-28406	

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Hurst, David Charles	SR	ESP		Te-22369	2504 Vanderbilt, Raleigh, NC
Hussain, Akhtar	GR	PP	36 Dixie Trail		India
Hussain, Pals A.	SO	GFE		Te-34090	117 Forest Rd., Raleigh, NC
*Huskey, Bobby P.	SR	AGE	Pine Lake Trailer		513 W. Church, Covington, NC
Hutchins, Cecil C.	SO	FOR	Tucker		RT#2, Leicester, NC
*Hutchins, Charles E.	FR	CE	115 Woodburn Rd.		Box 471, Sanford, NC
*Hutchins, Charles R.	JR	NE		Te-29186	18A, Vetsville, Raleigh, NC
Hutchins, George Gary	JR	AGE	Tucker		RT#2, Leicester, NC
Hutchins, James Clyde	SO	MAG	Alexander		RT#2, Mocksville, NC
Hutchins, Roy Austin	FR	CHE	Owen		Gastonia, NC
Hutchinson, James R.	SO	CE	Syme	Te-29410	P.O. Box 161, Morven, N.C.
Hyatt, Bass Utrile Jr.	SR	AI	2100 Hillsboro	Te-46094	Brasstown, NC
Hyatt, Robert R.	SR	AGY	Owen	Te-29410	RT#1, Bryson City, NC
Hydes, Max Thomas	FR	AG			Whittier, NC.
Ingold, Charles R.	FR	EE	Owen	Te-49836	1505 English, Winston-Salem, NC
Ingold, Harry Watkins	JR	EE	108 Willow	Ho-74813	108 Willow, Cary, NC
Ingram, Joseph King	JO	ME	Becton	Te-29256	105 Maple, Badin, NC
*Ingram, Robert Cheek	SO	ARC	2636 Kilgore	Te-36489	Box 116, Kenansville, NC
Inmon, John Douglas	SO	CE	Owen		RT#2, Pilot Mtn. NC
Inscoe, Joseph Wm.	SO	AGP	Tucker		114 W. 6th, Newton, NC
Inscor, Willard F.	FR	GE	Becton	Te-23972	Durham, NC
Ireland, John H.	SO	GS	Turlington		449 Oakview, Burlington, NC
Irvin, Donald Ray	JR	IA	213 S. King Charles	Te-26158	Stoneville, NC
Isley, Larry Monroe	FR	EE	Tucker		RT#2, Snow Camp NC
*Isley, Max	SR	ME	3216 Bedford	Te-32473	835 C. Daniels, Raleigh, NC
Isminger, John H.	FR	GEE	Bagwell		Winston-Salem, NC
Israel, Wm. Landon Jr.	FR	TX	304 E. Park	Te-30453	1306 W. Nash, Wilson, NC
Isaacsb, Nathan E.	JR	TX	130 Hawthorne	Te-47325	Quebec, Canada
*Ison, Charles Thomas	SR	FMF	RT#3,	Te-31389	Donmoor Rd. Lawrence NY
Ivey, Richard Willis	SO	EE	Alexander		2006 Centennial, High Point, NC
					9N Lake Village, Wilmington, NC
Jackson, Charles A.	SR	HRT	2718 Clark	Te-26451	RT#1, Benson, NC
Jackson, Curtis Riley	JR	ME	Owen	Te-29115	606 W. Airline, Gastonia, NC
*Jackson, Dennis Lee	SO	APF	RR#4, Raleigh		Hope Mills, NC
*Jackson, Donald George	JO	FOR	College View Trailer	Ho-73952	RT#1, Black Mtn. NC
Jackson, George G. Jr.	FR	CE	Becton	Te-29372	Box 196, Elm City, NC
*Jackson, Harvey James Jr.	SR	IE	w-2 Country Club Homes		w-2, Country Club Homes, Raleigh, NC
Jackson, James S.	SO	PPT	Tucker		Plymouth, NC
*Jackson, Lewis Clark	SR	TX	210 N. Harrington		Box 31, Camerton, NC
Jackson, Ray E.	SO	EF	Tucker	Te-29388	RT#1, Mount Airy NC
Jackson, Robert Alan	JR	EE	1720 Hillsboro	Te-40451	3503 Ardale Pl. Greensboro, NC
Jackson, Thomas Leroy	JR	NE	1897 Smallwood	Te-29868	13521 Argyle, Chicago, Ill.
Jacobs, Carl R.	JR	TX	304 E. Park	Te-30453	50 Riverside Dr., N.Y., NY
Jacumin, Jimmy Ray	SO	NE	Gold	Te-29263	Rutherford College, NC
*James, Earl J.	SR	FC	6E, Vetsville		Wallace NC
James, Harry C.	SR	EE	5 E. Stadium		Graham, NC
James, Pryer Wilson	JR	MEF	1720 Hillsboro	Te-40451	3216 Hathorne, Richmond, Va.
James, Wm. C.	FR	CE	Becton	Te-29334	103 W. Mcaden, Graham, NC
James, Wm. Thomas Jr.	SO	NE	Alexander		24 Tryon, Asheville, NC
*James, Steve C.	FR	S		Te-32329	3821 Western Blvd., Raleigh, NC
James, Ralph E. Jr.	FR	EE	Bagwell	Te-49151	5 Holly Ridge, Asheville, NC
James, Roy B.					Box 142, Faison, NC
Jarrett, Douglas F.	FR	IA	Tucker		Neto, NC
Jarvis, Hubert C. Jr.	JR	ME	301L Fairview		661 Cabarrus, Mooresville, NC
Javid, Rafiallah	JR	EE	Turlington		Teheran, Iran
Jasper, Wm. John	JR	PO	2718 Clark	Te-26451	Burgaw, NC
Jayce, Wm. Michael	SR	IE	Berry	Te-29350	1474 Washington, Winston-Salem, NC
*Jeffries, Samuel E.	JR	EE			711 W. 9th, Raleigh, NC
Jefferies, Theodore Rea	FR	EE			214 Faircloth, Raleigh, NC
Jenkins, Charles A.	SO	NE	529 N. Boundry	Te-42143	529 N. Boundry, Raleigh, NC
Jenkins, Edwin A.	FR	SEA		Te-41133	2611 Grant, Raleigh, NC
*Jenkins, Homer Lee	SO	FMF	922 Peace Terrace	Te-46489	922 Peace Terrace, Raleigh, NC
Jenkins, Hubert Lee	JR	EE	Tucker		RT#1, Box 204, Rutherfordton, NC
*Jenkins, John Martin Jr.	FR	EE	Montagues Trailer Park		3603 E. Market, Greensboro, NC
*Jenkins, Samuel E. Jr.					RT#1, Oxford, NC
*Jenkins, Wm. Paul 2nd.	SP	EE		Te-49508	E2, Shelton Apts, Raleigh, NC
Jenkins, Wilbur Morris	JR	MEA	Becton	Te-29256	Stella, NC
Jenks, Bennie Max					RT#1, Neuse, NC
Jennings, John S.	SO	FOM	Turlington		Box 587, Hickory, NC
Jennette, Marshall E.	SO	CEC	1 Stadium	Te-49803	808 Woodburn, Raleigh, NC
Jensen, Harry M. Jr.	SO	NE	Owen	Te-29410	Box 504, Rutherford College, NC
Jensen, Jan S.	SO	CE	Tucker	Te-29323	Asheville, NC
Jernigan, Jackie Estridge	FR	PPT	Alexander		322 Congdon, Georgetown, S.C.
Jennisan, James H.	JR	AED	Watauga		RT#1, Goodwin, NC
*Jernigan, James R.	SO	IRR			495 S. Boylan, Raleigh, NC
*Jernigan, Martin L.	SO	CE	109 Ashe	Te-31029	109 Ashe, Raleigh, NC
*Jernigan, Wm. Robert Jr.		ME			1004 W. Broad, Dunn, NC
Jessup, Frank Wayne	FR	EE	Bagwell		Box 170, Rocky Mount, NC
Jessup, James Vernon		E	Tucker	Te-29323	2121 Raeford, Fayetteville, NC
Jessup, Richard F.	SR	AGE	Alexander	Te-29257	Winston-Salem, NC
*Jeter, Robert Lee	GR	NE			2320 Lake Dr., Raleigh, NC
Jivatode, George R.	JR	CE	2839 O'Berry	Te-34189	2839 O'Berry, Raleigh, NC
Jobe, Randall E.	SO	ME	Watauga		RT#4, Box 160, Greensboro, NC
Jobe, Robert Elmer	SR	CE	Turlington	Te-29192	RT#1, Elm City, NC
Jobe, R. Harrell	SO	IA	Watauga		RT#4, Box 160, Greensboro, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Johnson, Billy G.	SO	AI	Owen	Te-29115	RT#4, Box 79, Asheboro, NC
Johnson, Bryce W.	TH	NE	Berry	Te-29163	RPD#3, Blackfoot, Idaho
Johnson, Charles A.	SR	CHE	Welch	Te-29119	41 Dorchester, Asheville, NC
*Johnson, Charles B.	FR	MEA	1608 Berchan		101 N. Park, Greensboro, NC
Johnson, Charles E.	JR	AED	Syme	Te-29421	RT#1, Hibernia, NC
Johnson, Dan Cary	FR	ME	Te-29349		Rocky Mount, NC
Johnson, D. Heber	FR	AGC	Becton		RT#2, Benson, NC
Johnson, Donald W.	FR	AG	Owen		RT#4, Asheboro, NC
Johnson, Frank R. Jr.	JR	HRT	Greenhouse		405 Union, Murfreesboro, NC
Johnson, Franklin M.	SO	ME	Tucker	Te-29388	811 E. Evans, Greenville, NC
Johnson, Eli Vance	SO	ME	Berry		Robertsonville, NC
Johnson, Freda Leroy	SR	CEC	Alexander	Te-29257	Benson, NC
Johnson, Gerald Lee	FR	TX	Tucker	Te-29112	Moss Springs Rd. Albemarle, NC
*Johnson, Harris Lee	JR	TX	131 Hawthorne	Te-45877	630 Forest, Greensboro, NC
Johnson, Herbert S. Jr.					Crossnore, NC
Johnson, Herbie M. Jr.	FR	FOR	Bagwell		Box 133, Mantco, NC
Johnson, Harry D.	SO	IE	101 Fourth	Te-29159	RPD#1, Delco, NC
Johnson, Hilton G.	JR	ACT	109 Oberlin	Te-41547	P.O. Box 253, Mt. Gilead, NC
Johnson, Howard Leon	SO	ARC			502 Cotler, Raleigh, NC
*Johnson, James Casey	JM	MED		Te-33919	1217 Wake Forest, Raleigh, NC
Johnson, James Frederick	FR	AG	Turlington	Te-22278	RT#1, Box 482, N. Wilkesboro, NC
Johnson, James Hubert	ZE			Te-29297	409 E. Main, Aberdeen, NC
Johnson, James McM	FR	FOR	Syme		Kenansville, NC
*Johnson, James O.	JR	IA	3210 1/2 Clark	Te-49059	528 Hunter, Madison, NC
Johnson, James Willis C.	SO	ARC	Welch		RT#2, Kenly, NC
*Johnson, James Vinson Jr.	SR	ME	340 1/2 Vetville	Te-21832	1702 N. Blount, Raleigh, NC
*Johnson, Jerry A.	JR	ME			Richmond, Va.
Johns, John Carroll	FR	FOR	Owen	Te-24910	Raleigh, NC
Johnson, John Hicks, 2nd	FR	CE	Tucker		RT#1, Boonville, NC
Johnson, Keith Edwin	FR	EE	Owen	Te-29437	Rowley, Sanford, NC
Johnson, Larry B.	SO	AI	Alexander	Te-29349	Route 3, Four Oaks, NC
Johnson, Mack M.	SR	TX	2114 St. Mary's	Te-22607	Shelby, NC
Johnson, Ned Garrott	SR	HAC	5-A Vetville	Te-43903	207 W. Church St., Benson, NC
*Johnson, Preston Benton	JR	EE			1712 Forest Rd., Durham, NC
*Johnson, Ralph B.					103 Third Ave., Atlantic Highlands, N.J.
Johnson, Raymond Gerard	SO	CHE	Tucker	Te-29312	Winston-Salem, NC
Johnson, Robert C.	JR	ME	Berry		2002 Sheed Ave., Fayetteville, NC
Johnson, Ronald Maddox	JR	ARC	Tucker	Te-29323	Box #1, Jonesville, NC
Johnson, Samuel Arnold	FR	E	Syme	Te-20150	Route 4, Lexington, NC
*Johnson, Terry Luther	SO	ME	2034 Brooks Ave.		102 W. First St., Erwin, NC
Johnson, William C.	JR	EE	2415 Fairview Rd.		Route 4, Taylorsville, NC
Johnson, William Hal	SO	COM	Tucker		Route 3, Box 157, Fayetteville, NC
Johnson, William Hugh	JR	AEC			Box 97, Spring Lake, NC
Johnson, Wilma Traye	JR	AGE	2302 Hillsboro St.	Te-22741	Lookout Mountain, Tenn.
Johnston, George S.	FR	TX	Bagwell		2319 N. Melvina, Chicago, Ill.
*Johnston, Verlie L.	SR	NE	2715 Clark Ave.	Te-29135	College St., Littleton, NC
Johnston, William R.	SO	AI	1710 Hillsboro	Te-42001	111 Windsor St., Spartanburg, SC
Johnstone, Rudolph Gordon	JR	CHE	2612 Clark Ave.	Te-43387	605-C, Daniels St., Raleigh, NC
Jolley, Lester Boyd					Route 2, Moravian Falls, NC
Joiner, William Thomas			2400 Delta Dr.		Windsor Ave., Richmond, Va.
*Jones, Alfred	SR	PEC	College View Trailer Park		Route 3, Hertford, NC
Jones, Billy Hobbs	FR	AGE	Watawga		Route 2, Pikeville, NC
Jones, Charlie B.	SR	EE	Syme	Te-20288	Charlotte, NC
Jones, Clarkson, Jr.	JR	ARC	2402 Hillsboro	Te-26520	Box 105, Sylva, NC
Jones, Claude Picklesimer	JR	EE	Owen	Te-9464	Box 92, Bailey, NC
Jones, Carroll G.	JR	ME	Tucker	Te-20387	Pantego, NC
Jones, Clemoth Earl	FR	IA			514 Peebles St., Raleigh, NC
Jones, Frederick Henry	FR	EE			Route 1, Guilford, NC
Jones, George Wayne	FR	ME	Tucker	Te-49739	New York, N. Y.
Jones, Irwin Eugene		ARC	112 Cox Ave.	Te-24449	401 Hampton St., Rock Hill, SC
*Jones, James B., Jr.	SR	MED	305 Brooks Ave.	Te-29222	Creston, NC
Jones, James Edward	FR	AG	Syme	Te-29410	Scotland Neck, NC
Jones, James Frederick	FR	ME	Owen	Te-28793	Route 1, White Oak, NC
Jones, John Bennett	SO	AG	2400 Delta Dr.	Te-29372	Route 2, Walstonburg, NC
Jones, John Carson	FR	AG	Becton		Box 611, Cary, NC
*Jones, John Walter			Box 611, Cary		Route 6, Reidsville, NC
*Jones, Joseph S.	JR	MEA	37-F Vetville	Te-22434	248 E. College St., Newton, NC
Jones, Joseph S.	FR	EPY	Owen	Te-29410	617 Clark Ave., Wilson, NC
Jones, Joseph T.	SO	TX	Berry	Te-29131	608 South Ave., Hickory, NC
Jones, Joseph Walters			Bagwell	Te-20334	Route 1, Pink Hill, NC
Jones, Kenneth W.	FR	AG	Becton		Barnum, NC
Jones, Kibby Bess			34-E Vetville		Bloomington, Ill.
*Jones, Lawrence B.	JR	CEC	35-F Vetville	Te-20409	W Vance St., Laurinburg, NC
Jones, Lewis Edmund			Turlington		2716 1/2 Van Dyke Ave., Raleigh, NC
Jones, Malcolm David					Box #14, Spindale, NC
*Jones, Paul Martin	JR	DM	2716 1/2 Van Dyke Ave.	Te-28227	Route 3, Laurinburg, NC
*Jones, Paul Reuber	FR	TX	Turlington	Te-29279	Route 2, Graham, NC
Jones, Robert Ralph, Jr.	SO	CE	Owen	Te-9464	Laurel Springs, NC
Jones, Thomas G.	SR	ATY	Gold	Te-29263	Route 1, Oxford, NC
Jones, Victor Allen	JR	CEC	Becton	Te-20334	Route 1, Belmont, NC
Jones, William Bowling, Jr.	SO	AG	Tucker		207 Sycamore St., Weldon, NC
Jones, William Henry	FR	TX	Tucker		Box 23, Laurinburg, NC
Jordan Alfred Wilmer	FR	MEA	Bagwell	Te-29131	1000 W. Cabarrus St., Raleigh, NC
Jordan, Charles Lee	FR	DN	Syme	Te-23467	Cambria Heights, N. Y.
*Jordan, Leon Tyson, Jr.	SR	IA	1600 W. Cabarrus St.	Te-47325	Highpoint, NC
Jordan, Richard Charles	SR	TC	113 Hawthorne Rd.		Route 8, Charlotte, NC
Jordan, Russell Edward	SO	NE	Alexander		106 Hobbs Ave., Thomasville, NC
Jordan, Verner W., Jr.	JR	MEA	Berry	Te-29363	
Jordan, Wayne Eugene	FR	EE	Syme	Te-20222	

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Joseph, Anwer A	FR	ARC	Owen	Te-27807	1801 E. 4th St., Greenville, NC
Joseph, Fred Irving	SR	OIG	Owen	Te-27807	1801 East Fourth St., Greenville, NC
Joyce, Donald Max	FR	TX	Becton	Te-20334	176 Textile St., Highpoint, NC
Jayner, Harvey Ray	JR	CE	Syme		Route 1, Elm City, NC
Joyner, Jimmy Yates	JR	CE	Wendell, NC		Route 2, Wendell, NC
Joyner, Sanford Clyde	FR	MEA			Knightdale, NC
Joyner, Thomas Fredrick	FR	BO	Becton	Te-29334	Walston St., Windsor, NC
Juarez, Luis Alberto	SR	BO	Gold	Te-20273	Lima, Peru
Judd, Joe Thomas	SR	AI	123 Brooks Ave.	Te-28764	Nashville, Tenn.
Jurney, Doug Melvin	SO	ME	Becton	Te-29334	Harmony, NC
Justus, Robert Allen	JR	ME	2512 Clark Ave.	Te-24843	Hendersonville, NC
Kahl, William Bailey	FR	EPY	Syme	Te-29222	Kemp Rd, Reisterstown, Md.
Kalmsack, Ewald	FR	IE	Tucker	Te-29323	River Crest, Mount Clare, Pa.
Kalwar, Ghilliam Rasoll					2402 Hillsboro St., Raleigh, NC
Kametches, Chris Lloyd	JR	TX	801 W Pineland Dr.	Te-41823	801 W Pineland Dr., Raleigh, NC
Kannan, Philip Charles	JR	SE	19064 Hillsboro	Te-46165	110 E Boswell St., Wilson, NC
Kapherr, Joseph William	SR	ME	Berry		Box 74, Creedmoor, NC
Karam, Thomas Anthony	JR	CEC			Box 145, New Bern, NC
Karraker, Fuller R.	SR	NE			1929 Wake Forest Rd., Durham, NC
Kataria, Manohar Lal	SR	IE	Welch	Te-29119	India
Katich, Thomas Joseph	JR	IRR	Alexander		Philadelphia, Penn.
Kay, William Byrd, Jr.	SO	CE	Becton	Te-20256	Box 88, Red Springs, NC
Keaton, John Austin	JR	AGY	Tucker		Route 1, Elizabeth City, NC
Kear, Fred William	JR	MEA	12-F Vetville		12-F, Vetville, Raleigh, NC
Kearney, Wayne Thomas	SO	ME	Owen		691 Beck Ave., Henderson, NC
Keaton, Phil Newman	FR	ME	Tucker	Te-49739	Route 1, Winston-Salem, NC
Keel, Norwood Saunders	JR	ME	32-B Vetville	Te-29219	610 W. Main St., Williamston, NC
Keel, William Earl	FR	E	1204 Groveland Ave.		1204 Groveland Ave., Raleigh, NC
Keen, Joseon Donald	SO	CHE	Pine Lake Trailer Park		405 N. Herman St. Goldsboro, NC
Keever, Robert Cebe	FR	EE	1312 Brooks Ave.	Te-23328	Mt. Mourne, NC
Kelers, Willis	SO	E	599 E. Martin St.		599 E Martin St., Raleigh, NC
Keith, Kenneth Robert, Jr.	FR	ME	Syme	Te-29150	708 N. Poplar St., Aberdeen, NC
Keith, Karvin Owen	SO	IRR		Te-29150	Rameys Circle, Franklin, NC
Kellar, Robert Paul	JR	MEA	120 Woodburn Rd.	Te-23701	262 Caldwell St., Brevard, NC
Keller, Wayne Douglas	SO	EE	Owen	Te-29464	Route 1, Lenoir, NC
Keller, William Harry, Jr.	SR	IRR	Turlington	Te-49279	Route 1, Wendell, NC
Kelly, Henry Leland	SD	MEA	Syme		1241 20th, Newoot News, Va.
Kelley, Jack J.	SR	FOR	Tucker	Te-29323	521 Stratton Logan, W.Va.
Kelley, Paton H.	SR	PSC	Bagwell		RFD#2, Wallace, NC
Kelley, Richard P.	SR	IE	17B, Vetville		RT#2, Germantown, NC
Kelly, Charles W.	JR	TX	Tucker		141 Raines Dr., Henderson, NC
Kelly, Darrell B.	SO	MEA	2720 Vanderbit	Te-29919	P.O. Box 475, Lillington, NC
Kelly, Dwight B.	SO	CE	191 Chamberlain	Te-22293	Brinkley Ave., Plymouth, NC
Kelly, James E. Jr.	AG		Tucker	Te-49739	Mocksville, NC
Kelly, Paul Omer	JR	EE	Williams Trailer Park		Box 459, Newoot, NC
Kelly, Richard P.	SO	IRR	Owen	Te-29387	626 Turner, Drexel Hill, Pa.
Kelly, Virgil L.	FR	CHE	Tucker	Te-29387	Box 202, Baileyville, W.Va.
Kemp, Bobby W.	FR	CE	Bagwell	Te-29412	201 Judd, Fayetteville, NC
Kemp, John R. Jr.	SR	TX	813 Peace Terrace		Box 271, Buena Vista, Va.
Kemp, Philio S.	FR	FM		Te-42615	3010 Farrior, Raleigh, NC
Kenan, Wilfred Mills			Wilmount Apts#3		RT#2, Clinton, NC
Kendrick, Edward D. Jr.	SO	NE	Syme	Te-29421	Box 22, Fallston, NC
Kennedy, Archibald C.	JR	CE	1306 Hillsboro		409 N. Fulton, Salisbury, NC
Kennedy, Billy Ray	JR	FM	209 Gardner	Te-31786	RT#4, Box 131, Thomasville, NC
Kennedy, Hayes Dean	FR	FOR	Syme		Beauville, NC
Kennedy, Jack Craig	SR	EE	1800 Park Drive		RT#3, Thomasville, NC
Kennedy, Melvin C.	FR	MEA	Tucker	Te-29323	1814 Liberty, Asheboro, NC
Kennedy, Thomas B. Jr.	SR	WPM	22H, Vetville	Te-21971	5305 Hall Place, Raleigh, NC
Kennel, Robert P.	JR	NE	Owen		1703 High St, New Bern, NC
Kennery, Garey Albert			108 Harrison		1209 W. Gold, Wilson, NC
Kedley, Alexander J.		TX	Tucker		119 Raleigh Rd., Lexington, NC
Kepley, Wallace A., Jr.			1110 Parker		Kk23 S. Main, Salisbury, NC
Kerns, Forrest D.	FR	MEA	Tucker		RT#9, Box 331, Charlotte, NC
Kerr, Larry S.	SO	CE	Tucker		147 W. Stewart, Mooresville, NC
Kerr, Walter Bernard	SO	MEA	Box 638 Cary		RT#4, Box 544, Kannapolis, NC
Kersey, David H.	SR	CE	Welch		1901 Freeman Mill, Greensboro, NC
Kersey, Tommy M.	SO	CEC	308 Hillcrest	Te-20459	1839 11th, NE, Hickory, NC
Ketchie, Delmar Ogg	JR	HRT	922 W. Johnson	Te-22788	Salisbury, NC
Ketner, James C.	JR	ME	Owen		RT#5, Salisbury, NC
Key, Francis Scott	SO	IA	Syme		176 9th, Crumpton, NC
Key, James E.	SR	EE	15 Stadium		RT#1, Box 493, Mt. Airy, NC
Kiger, Bobby Gray	FR	ME	Bagwell	Te-29131	RT#1, Walkerton, NC
Kiger, Carl James	SR	MEA	32D, Vetville	Te-30649	191 Chamberlain, Raleigh, NC
Kiker, Wm. Edward	SR	NE	Watauga	Te-29447	412 Lomax, Monroe, NC
Kilian, Willie Z. Jr.	SR	FAG	Turlington	Te-29192	Ridgeway, NC
Killian, Johnny H.	IE		Syme	Te-29150	Margie, NC
Kie, You Song	GR	CE	Gold		Seoul, Korea
Kimball, Wm. Ross					970 Wilmington Terrace, Raleigh, NC
Kimbard, Julius A. Jr.	SO	CRE	Syme		Yanceyville, NC
Kimrey, Joel Otto	JR	EE	Syme	Te-29288	RT#2, Norwood, NC
Kimrey, John Dixon Jr.	FR	AG	Bagwell		RT#1, Mebane, NC
Kimrey, Rives B. Jr.	FR	CFC	Bagwell	Te-49151	517 Cross, Sanford, NC
Kincaid, Ronald David	SR	ME	2320 Clark, #E	Te-47795	Church St., Kings Mtn., NC
Kincaid, Theodore Allen	SO	NE	Becton	Te-29334	206 Coulter, Morganton, NC
Kinch, Robert E.	SR	IA	982 Harp Terrace		Box 232, Elon College, NC
Kincheloe, Wm. Hatcher	SO	EE	Becton	Te-29261	108 Wildwood, Rocky Mount, NC
Kirschdorfer, Louis Ray	FR	ME	Owen	Te-49836	P.O. Box 31, Roseboro, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
King, Allen C.	FR	ME	Syme	Te-29150	513 W. Henderson, Salisbury, NC
King, Charlie L.	SO	AG	Becton	Te-29334	Lansing, NC
King, Charles Norman	FR	FOR	Becton	Te-29334	Box 46, Bakersville, NC
*King, James A. Jr.	GR	TDM	UK28, Vetsville		504 S. McQueen, Florence, S.C.
*King, James Claude	FR	AED	125 S. Bards		RPD#1, Statesville, NC
King, Larry A.	SO	EE	Alexander	Te-29349	2117 Langley, Greensboro, NC
King, Martin B.	JR	EE	Tucker		505 Hamlet, Hamlet, NC
King, Robert T.	SR	AI	Becton	Te-29334	Box 74, Fair Bluff, NC
King, Wm. Preston	SR	AI	Becton		Box 74, Fair Bluff, NC
Kinlaw, James Michael	FR	DN	Syme	Te-29222	1119 East 5th, Lumberton, NC
Kinnamon, Charles	SO	EE	Watauga		RT11 Box 586, Charlotte, NC
Kinsland, Raymond E.	JR	AED	Owen	Te-29464	RPD#1, Whittier, NC
*Kiziah, Gene F.	SO	ME	RT#1 Cary		1104 S. Queen Ann, Burlington, NC
*Kirby, James A.	PR	ARC		Te-47272	606 Smeades Place, Raleigh, NC
Kirk, Wm. Franklin	FR	ME	Alexander	Te-29449	P.O. Box 194, East Bend, NC
Kirk, John Lloyd	JR	CE	2514 Clark		Asheville, NC
Kirk, Wm. Henry	SO	ME	Owen	Te-29410	Asheville, NC
Kirkland, Robert Taft Jr.	SO	NE		Te-32422	2809 Barmettler, Raleigh, NC
Kirkley, John Marshall	FR	CE	Owen		1441 Cliffwood, Charlotte, NC
Kirkland, Benjamin E.	FR	HRT	2713 Everett	Te-31312	RT#1, Hobgood, NC
Kirkman, Charles G.	FR	PY	Tucker		RT#2, Elon College, NC
Kirkman, Joseph Evans	SO	NE	120 Park		114 E. Avondale, Greensboro, NC
Kirkpatrick, George W.	FR	ME	Owen	Te-29437	RPD#1, Clyde, NC
Kirkpatrick, John N.	SO	IE	Turlington	Te-49279	720 West Blvd., Charlotte, NC
Kins, James Allen	FR	NE	Baywell		710 Volts, Greensboro, NC
Kirkpatrick, Thomas W.	FR	FOR	Tucker	Te-49739	RT#1, Clyde, NC
Kirves, Herbert V.			Watauga		Rheinberg, Germany
Kiser, Albert R. Jr.	FR	PPT	Tucker	Te-29387	1404 W. 1st, Winston-Salem, NC
Kiser, Fred Wm.	SR	AG	Turlington	Te-49279	RPD#3, Kings Mtn. NC
Kissian, Robert H.	FR	IE	2715 Barmettler		2700 Eastway Dr., Charlotte, NC
Kitchin, Lawton W. Jr.	FR	CEC	Baywell		Box 85, Maxton, NC
Kittrell, Benjamin U.	FR	AED	Becton	Te-29256	RT#4, Kittrell, NC
*Kivett, Wm. Everette	JR	CE	195, Vetsville	Te-42639	Box 303, Ramoth, NC
Klutta, James F.			2705 Kilgore		203 N. Spring, Concord, NC
Klutta, Jimmy Haynes	SO	LA	Becton		RT#5, Box 576, Salisbury, NC
Kluts, Johnny S.	FR	CHE	Owen	Te-29252	1304 12th, NE, Hickory, NC
Kluts, Larry Elmo	FR	NE	Owen		Queen St., Boone, NC
Klutta, Ronald Cooper	SO	FMH	Turlington		Pittsburg, Pa.
*Knight, Daniel V.	SR	CHE	227 Forest Rd.		Box 128, Pantego, NC
Knight, George D. Jr.	JR	ARC	184 Horne		Norlina, NC
Knight, James Thomas	SO	EE	Owen		4749 Addison Dr., Charlotte, NC
*Knight, Johnny B.	SR	EE	709 McCulloch	Te-37056	2633 Chesterfield, Charlotte, NC
Knight, Kenneth Mock	SR	GEE	301 Utn		Box 107 Roanoke Rapids, NC
Knowles, James Linwood Jr	JR	AGY	Owen	Te-29115	RT#1, Jamesville, NC
Knowles, Wm. Ross			Owen	Te-29115	RT#1, Jamesville, NC
Knox, Hayden Edward	FR	AG	132 Woodburn		RT#1, Davidson, NC
Knox, Richard Douglas	FR	FOR	Tucker		1611 Elwood, Greensboro, NC
*Knox, Robert Alexander	FR	DM	RT#1, Cary	Te-45328	RT#3, Charlotte, NC
*Kissian, Jack D.	SO	ME	Tucker		1104 S. Queen Ann, Burlington, NC
Kirby, Donald H.	SR	TX	416 Dixie Trail	Te-21308	206 Hillside, Charlotte, NC
*Kirby, Glenn Byars	JR	EE	2210 Hope St.	Te-28971	Rhodiss, NC
Koenil, Teddie S.			10 Stadium	Te-49803	1105 Garland, Pampa, Texas
Kolody, Roman	FR	PPT	Alexander		1607 Nance, Newberry, S.C.
*Kojima, Ken-chi			Patterson 1-A		205 Ashe, Raleigh, NC
Konkle, Theodore P.	FR	CE	Baywell	Te-29111	P.O. Box 74, High Point, NC
*Konsler, Thomas R.	GR	HRT	UK35, Vetsville	Te-29282	518 Chinoe, Lexington, NC
Koonce, Lacy Herman Jr.	FR	CE	Becton		RT#2, Raeford, NC
*Koonce, Frederick Wayne	FR	ARC			817 Runnymede Rd., Raleigh, NC
Koons, Max A.	SR	NE	175, Vetsville		1005 Central Dr., Kannapolis, NC
Koop, John Clement	GR		Gold	Te-29263	15 Short Dr., Rangoon, Burma
Korn, Wm. Ernest	JR	IA	19A, Vetsville		19A, Vetsville, Raleigh, NC
Korn, Raymond Edward	GR	HAC	1720 Hillsboro	Te-40451	1106 S. Ash, Allentown, Pa.
Kornesay, Bobby Rex	FR	E	Syme	Te-29222	RT#1, Goldsboro, NC
*Kornesay, Robert Cooper					Box 523, Smithfield, NC
*Kost, Robert Wm. Jr.	SR	FOM	806 W. Gardner	Te-38606	806 E. Gardner, Raleigh, NC
Kozewski, Stephen S. Jr.	FR	NE	Turlington	Te-29192	1125 Aylesford, Charlotte, NC
Kratt, Theodore John	FR	CHE	Syme	Te-49805	RT#4, Box 214, Matthews, NC
*Kraus, Wm. Henry	SO	ME	Owen	Te-29464	409 Clarice, Charlotte, NC
Kriegel, Wm. Wurth					
Krimminger, Thomas Wayne	FR	DRE	Tucker	Te-29387	Box 416, Mt. Pleasant, NC
*Krusberg, Lorin Ronald	GR	PP	16 Purchess	Te-25323	RPD#4, Elkon, Md.
*Kinselman, Mahlon B.	SR	FOM	Bagwell		230 Circle Ct., Fayetteville, NC
Lackey, Edward Logan	JR	EE	2400 Delta Dr.	Te-28791	P.O. Box 33, Old Fort, NC
Lackey, Frank A.	JR	AED	Syme		RT#6, Statesville, NC
Lackey, James Richard	JR	TX	Gold		409 S. Haze, Statesville, NC
Lackney, Robert R.	FR	ARC	Syme	Te-29222	3159 Sherbrook, Toledo, Ohio
*Ladd, Jack Frank	JR	AED			2309 Stephens, Raleigh, NC
Ladd, Joe Darrell	SO	NE	Owen		906 W. Walnut, Gastonia, NC
Lafajerna, James David	FR	CE	Alexander	Te-29257	Michigan St., Kannapolis, NC
LaFoy, Ernest M.	JR	TX	307 Fourth		12 Barrow Lane, Concord, NC
*Laquire, David Hugh					1515 Angier, #4, Durham, NC
Lahey, Gordon Cyril					29A Broadwood, Burlington, NC
Lake, John Marshall	SR	ME	2512 Clark		526 Henley Pl., Charlotte, NC
La Mar, James B. Jr.	FR	NE	Berry	Te-29363	965 Overlook, Lakesville, NC
Lamb, Russell Dale	SO	ME	Owen		27 Hillside Terrace, W. Asheville, NC
Lambert, Donald S.	SO	AG	110 Chamberlain		305 Oakridge, Fayetteville, NC
Lambert, James Robert	FR	IRR	117 New Bern	Te-22264	52755 Hollyhock, South Bend, Ind.

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Lambert, John Hall	SO	AGE	Turlington,		RT#1, Brevard, NC
*Lambert, Ray Allen	FR	SE	3104 Douglas		1221 Motor Rd., Winston-Salem, NC
Lambert, Samuel J. Jr.	SR	AI	Owen		Brodnax, Va.
Lambert, Wm. Royce	JR	MAE	RT#1, Benson		RT#1, Benson, NC
Lambright, Charles M.	FR	EE	Tucker	Te-29312	16 Kenilworth, Asheville, NC
*Lamm, Bruce	FR	EE		Te-44835	607 Gaston, Raleigh, NC
Lamm, George Barry	SO	ARC	Syme	Te-49805	1504 Highland, Wilson, NC
Lambert, Arthur	SR	TX	2116 Hillsboro		Thailand
Lambert, Daniel C.	FR	MEA	Becton	Te-29261	Wilmington, NC
Lambert, Jack	SO	EE	405 N. Blount		RT#2, Hendersonville, NC
Lambert, James A.	FR	TX	Alexander		6 First, Laurinburg, NC
Lambert, Joseph Robert	SR	IE	Alexander		112 N.6th. Mebane, NC
Lane, James Asbill	SR	OHE	205 Forest Rd.	Te-21077	RT#2, York S.C.
Landin, Luther Louis Jr.	FR	ME	Owen	Te-29115	406 Eastern, Rocky Mount, NC
Lane, Charles Brick	SR	ARC	2220 Hillsboro	Te-12986	2012 Charlotte Dr., Charlotte, NC
Lane, Harold W.	JR	DE	Watauga	Te-29447	1003 Toisnot, Wilson, NC
*Lane, John H. Jr.	SR	AGY	3312 Pollock Pl.	Te-37781	Box 58, Stantonsburg, NC
Lane, Thomas W.	FR	TX	Tucker	Te-29387	E.C. Street, Butner, NC
*Lane, Walter Robert	JR	EE		Te-40216	13D, Vetsville, Raleigh, NC
Lane, Wm. Bryan	FR	TX	Owen	Te-29437	Newbern, NC
Laney, Sherrill Glenn	SO	DEC	Owen		RT#4, Box 492, Kannapolis, NC
Lanier, James B. Jr.	FR	A	Owen		RT#1, Benson, NC
Lanier, Lucy P.	FR	ME	Becton	Te-29372	RT#2, Angier, NC
Langdon, Raeford E.	SO	CE	Bagwell	Te-29412	RT#1, Smithfield, NC
Langford, James Henry	FR	EE	Syme		Box 127, Woodleaf, NC
*Langford, Richard F.	SO	EE	64 Dixie Trail		1910 Erwin Rd., Durham, NC
Langley, John Paul	SR	DM	2916 C Berry		501 Hammond, Rocky Mount, NC
Langley, John Gene	SR	ARD	Watauga		RT#4, Rocky Mount, NC
Langley, Nelson J.	JR	IA	21C, Vetsville		RT#5, Box 303, Greenville, NC
Langley, Thelbert E.	FR	DE	Tucker	Te-29186	RT#1, Clayton, NC
*Langston, Edward E.	SR				Box 176, Princeton, NC
Langston, Harvey Glenn	FR	EE	Syme		1001 W. South, Raleigh, NC
Lanier, Wm. Richard	JR	ME	7-H, Vetsville		Box 220 RT#1, Sharpsburg, NC
Lanier, Marvin Ray	SR	ME	RML0, YMCA	Te-27184	RT#7, Statesville, NC
Lanier, Kirby Chesley	JR	AED			Chinquasin, NC
Lankford, Phillip Gene	FR	ME	813 Clay St.		2004 Katherine, Kannapolis, NC
*Lankford, Robert L.	SO	ME	28G, Vetsville	Te-26977	2004 Katherine, Kannapolis, NC
*Lasater, Robert E.	JR	CE	6C, Vetsville	Te-28179	Erwin, NC
Lashley, Edwin Roy Jr.	SO	ARC	Alexander	Te-19746	819 5th. Greensboro, NC
Lasman, Lonnie Louis	SR	EJST	2717 Vanderbilt	Te-22126	1328 Kenneth, St. Paul, Minn.
Lasseter, Robert H.	FR	ARC	Tucker	Te-29367	457 N.E. 95th, Miami, Fla.
Lassiter, Edward Bert	SR	ARC	2100 Hillsboro	Te-46094	Four Oaks, NC
Lassiter, Edward S.	JR	AI	Owen		RT#3, Four Oaks, NC
Lassiter, Gaither C. Jr.	Jr	IA	Welch		Box 356, Spring Hope, NC
Lassiter, James Daniel	SO	ME	Becton		220 Church, Clayton, NC
Lassiter, Louie Thomas	SR	TX	1735 Nottingham	Te-31596	1735 Nottingham Dr., Raleigh, NC
Lassiter, Ray Roberts	SO	NEC	Owen	Te-29464	RPD#2, Ashokis, NC
Latham, Edward Braddy	JR	DEC	1204 Traveland	Te-38037	210 E. 11th, Washington, NC
Latham, Robert P.	JR	NE	Welch	Te-29119	416 Salisbury, Mocksville, NC
Latham, Wm. Lee	SO	ME	Bagwell	Te-29412	4212 Plaza, Charlotte, NC
Lathan, Leonard C.	SR	AI	Dairy Farm	Te-42134	RT#6, Monroe, NC
Lathrop, George T.	SR	DE	Sigma Chi Frat.	Te-34522	4 Woodlink, Asheville, NC
Lathrop, Roy P.	SO	IE	2701 Clark	Te-34522	32 Kensington, Asheville, NC
Latta, Wm Martin	JR	FE	Becton	Te-49256	The Rectory, Louisburg, NC
Latusick, Bernard John	FR	PE	Tucker	Te-29367	106 Ohio, McKees Rocks, Pa.
Lauder, Robert D.	SR	HRT	Greenhouse		Edenville, NC
Loughridge, John C.	JR	DEC	Tucker		Airport Rd., Marion, NC
Laughton, Wm. J. Jr.	SO	EE	Berry	Te-29350	512 Fisher, Morehead, NC
Laurie, Mark E.	SO	IE	130 Hawthorne	Te-17325	Brooklyn, NY
Laursen, Doan B.	JR	AI	226 Willow, Gary	Ho-72201	Wilson College, Swannanoa, NC
Laursen, Ernest R.	FR	AI	225 Willow, Gary	Ho-72201	Wilson College, Swannanoa, NC
Law, Kenneth W.	FR	IE	Owen	Te-29252	75-66, 197th, Flushing, NY
*Law, Charles James Jr.	SR	ARD	km9, YMCA	Te-27184	Pe ham, NC
*Law, James I.	FR	TX			A3, Country Club Homes, Raleigh, NC
Law, Wm. Sibley,	FR	E	Tucker	Te-29323	P.O. Box 708, Fayetteville, NC
*Lawler, John	JR	EE	RT#6, Ridge Rd.	Te-34014	Gen. Del. Forest City, NC
Lawing, Wm. Dennis Jr.	SR	IE	Owen		725 Templeton, Charlotte, NC
Lawrence, John A.			Tucker		
Lawrence, Robert Lee	SR	ME	2512 Clark	Te-24843	Twin Castles, Winston-Salem, NC
Lowmore, Gene R.	SO	NE	Tucker		ARD#3, Tabor City, NC
Lawson, Edward J. Jr.	SR	AT	Owen		315 Momosa, Dublin, Ga.
*Layden, James E.		OHE			N. Person, Raleigh, NC
*Lazenby, James W. Jr.	SO	DN	#3, Glenwood Arms	Te-46936	#5, Glenwood Arms, Raleigh, NC
*Lazzo, Nicholas Michael	Jr	TX	Gar, NC	4r-71761	711 Kenan, Wilson, NC
Lea, Hurdle Haywood	Jr	TX	Syme		High Point, NC
*Leach, Alfred Ray	JR	AED	17E, Vetsville	Te-42627	RT#1, Red Springs, NC
*Leach, Donald Ray	JR	EE	704 1/2 W. Jones		212 Wildwood, Burlington, NC
*Leach, Hal Thomas	SR	EE	22B, Vetsville		Box 264, Statesville, NC
Leach, Ralph B.	SO	EE	Tucker		E. Main, Aberdeen, NC
Leatherman, Carol James		TX	Owen		RT#1, Newton, NC
*Leatherman, Frank David	SO	EE	Montague Trailer	Te-41189	RT#2, Vale, NC
*Leatherwood, James Murray			115 Polk Hall		RT#1, Candler, NC
Leault, Peter David	FR	FOR	Bagwell	Te-49151	33 Golf Rd., Plymouth, NC
Ledbetter, Curgus C.	JR	EE	Welch	Te-29119	Box 624, Thomasville, NC
Ledbetter, John	JR	CE	Welch		
*Ledbetter, John S.	SO	EE		Te-32057	1407 Beaver Dam, Raleigh, NC
Ledbetter, Louis Richard	FR	EE	Tucker	Te-49254	2022 Kersey, Greensboro, NC
Ledbetter, Maxwell Howard	FR	TX	1508 Frank		RT#2, Box 96, Forest City, NC
Ledford, Richard Allison	SR		2226 Hillsboro		RPD#3, Charlotte, NC
Ledwell, Claude Atlas	JR	NE	2829 1/2 Mayview,	Te-20181	P.O. Box 6 Turkey, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Lee, Donald Ross	SO	ARC	Alexander	Te-29357	Route 11, Charlotte, NC
Lee, Helene Zinka	SO	CEC	105 1/2 Park Ave.	Te-49404	1625 Van Dyke Ave., Raleigh, NC
Lee, Jimmy Dale	FR	POR	Owen		Route 1, Oakboro, NC
Lee, John Charles	SO	EE	200 E. Edenton St.		Route 2, Raeford, NC
Lee, Milton Wayne	SR	PO	210 Cox Ave.		Box 294, Mayodan, NC
Lee, Palmer Wilson	SR	ME	210 Cox Ave.		Route 3, Marshville, NC
Lee, Praise Connor	FR	ME	203 Grove Land Ave.	Te-26861	Route 4, Jones Ave., Raleigh, NC
Lee, Robert Barlow	SR	ME	Tucker		202 E. Church St., Lenoir, NC
Lee, Robert Eugene	SR	EE	Bagwell		Dikeville, NC
Lee, Vincent	SR	EE	Owen		1619 Parkwood Ave., Charlotte, NC
Lee, Wuy-Kai	SO	IA	222 Hillcrest Rd.	Te-23429	Route 1, Four Oaks, NC
Lee, Willie Sherrill	SR	TX	1530 Benehan St.	Te-21352	170 Second Ave., Troy, N.Y.
Lefkowitz, Leonard A.	SR	EE	104 Dixie Trail	Te-23558	310 E 12th St., Washington, NC
Leggett, Ashley Gray, Jr.	SR	NE	181 1/2 White Oak Rd	Te-25965	181 1/2 White Oak Rd., Raleigh, NC
Leggett, Wilson D.	SR	EE	Owen		
Legwin, Jene	SR	ME	Owen	Te-29410	828 Gales Ave., Winston-Salem, NC
Lehman, Thomas Walter	SR	ME	Watauga		New Gardens, New York
Lellouche, Gerald Stanley	FR	E	Turlington	Te-29192	Winston-Salem, NC
Lemons, Benjamin Elias	FR	AED	802 Wilmington Terrace		802 Wilmington Terrace, Raleigh, NC
Lemons, Earl Chapin	FR	ME			3806, Cameron St., Greensboro, NC
Lemons, Clifton Eugene	FR	ME	Tucker	Te-29323	Route 2, Hayesville, NC
Lemons, Richard Craig	FR	ME	Alexander	Te-20349	117 Meadow Rd., Draper, NC
Lemons, Richard Kenneth	SR	EE	Turlington	Te-29192	Julian, NC
Lench, Hoy Eugene	SR	EE		Te-30861	600 Latta St., Raleigh, NC
Leonard, Bobby Eugene	SO	AGY	Syme	Te-29288	Route 2, Louisburg, NC
Leonard, Ralph Avery	SO	AGC	2100 Hillsboro	Te-46094	Route 6, Lexington, NC
Leonard, Robert Lindsay	FR	AG	Turlington		Route 3, Wake Forest, NC
Leonard, Rufus Nelson	SR	CE	Gold	Te-29192	1253 Pinchat Place, New York
Leone, Anthony	SR	CE	Owen	Te-29410	France
Leroy, Didier	SR	ARC	Park Drive	Te-27638	Route 1, Kinston, NC
Letcheorth, Charles Franklin	SR	TX			Brooklyn, N. Y.
Levine, Sanford L.	SR	TX			Benson, NC
Levinson, Oliver Charles	FR	ME	Barwell	Te-29131	Laithair Rd., Winston-Salem, NC
Lewallen, Herbert L., Jr.	FR	POR	216 N. Blount St.		Box 61, Henderson, NC
Lewis, Cecil Thomas, Jr.	FR	ARC	Berry		Oriental, NC
Lewis, Charles Joseph	FR	TX	Becton	Te-20334	Route 5, Dunn, NC
Lewis, James Albert, Jr.	FR	CE	Syme		E. Beach St., Goldsboro, NC
Lewis, James Spencer	FR	AED	Owen	Te-29115	Route 3, Ayden, NC
Lewis, John Robert	SR	CHE	3119 Leonard St.	Te-28879	Elkton, Va.
Lewis, Lunsford H.	SO	AG	No. 7 Dixie Trail		No. 7 Dixie Trail, Raleigh, NC
Lewis, Mary Anderson	SO	EE	1937 Fairfield Dr.		Morehead City, NC
Lewis, Nelson Taylor, Jr.	SR	EE	Tucker	Te-20388	1700 E. 5th St., Lumberton, NC
Lewis, Robert Earl	FR	AG	Tucker	Te-29323	Mainfield, New Jersey
Lewis, Robert Hunter	SO	ME	Barwell		Havelock, NC
Lewis, Robert O'Neil	SO	ZO	7 Dixie Trail		7 Dixie Trail, Raleigh, NC
Lewis, Tommie Kemp	SR	HAC	606 Daniels St.	Te-34551	Route 2, Wilmington, NC
Lewis, William Richard	SR	TX	1210 Glenwood Ave.	Te-49111	
Li, Pun-Duen	SR	CHE	2702 Hillsboro		China
Li, Stanley Chienpin	SR	ME			
Li, Yuk Duan	SR	DM	804 N. Blount St.		Rockville Centre, NY
Liden, Donald Turner	SO	CE	1323 Coutland Dr.	Te-26938	Box 57, Conover, NC
Lien, Hugo Oscar, Jr.	SR	NE			413 Gilford Circle, Raleigh, NC
Liguori, Robert R.	SR	NE			Route 1, Knightdale, NC
Liles, Billy Royce	SR	ME	106 Ashe Ave.	Te-46026	Gatesville, NC
Lilley, Glenn Newmon, Jr.	FR	AED	Alexander		Gatesville, NC
Lilley, James Harvey	FR	AG	Turlington	Te-29192	Academy St., Washington, NC
Lilley, Joseph Jordan	SO	MEA	3112 Raymond St.	Te-22098	Brazil
Lima, Joao W.	SR	AGY	3109 Hillsboro	Te-27810	Formosa
Lind, Clara Ju-Juan	FR	ARC	Owen	Te-29464	State St., Marion, NC
Lind, Tommy	SR	ME			34 Shepherd St., Raleigh, NC
Linder, William Wiley	SR	ME	215 Park Ave.		1306 Paul St., Greensboro, NC
Lindsay, Harry Vernon	FR	WAG	2514 Clark Ave.	Te-34522	Greensboro, NC
Lindsey, John Ronald	FR	WAG	3414 Hillsboro	Te-34878	Wilmington, NC
Lindsley, Hugh Randolph	SR	IE	Rt. 3, Raleigh		410 W. Divine St., Dunn, NC
Lineberger, James Worth, Jr.	SR	CE	Syme	Te-29222	Route 1, Woodleaf, NC
Lineberger, Lewis Barber	SR	MEA	Barwell	Te-29412	711 Spring Lane, Sanford, NC
Lineberry, Edgar Columbus	SR	AI	Owen	Te-29419	310 E Elm St., Graham, NC
Lineberry, Richard Arthur	SR	AED	2402 Clark Ave	Te-17917	Route 2, Hillsboro, NC
Liner, Hugh, Lupton	SR	CE	Owen		Box 26, Watauga, NC
Lingla, Douglas Eugene	SR	AED	Watauga		Route 8, Concord, NC
Linker, Larry Keith	SO	AED	Becton		Route 2, Warrington, NC
Liner, William Hight	SR	TX	Owen	Te-29142	Columbia, S. A.
Linscomb, Francisco A.	SR	TX	801 New Bern Ave.		Box 4586, Lenoir, NC
Liye, Phil E.	SR	EE	16-A Vetville		Route 1, Cleveland, NC
Lippard, John Henderson, Jr.	SR	EE	2103 1/2 Carroll Dr.		804 Willowbrook Dr., Greensboro, NC
Lippard, William F.	SR	CRE	224 Chamberlain St.	Te-39580	Hughes St., Apex, NC
Liuke, Jack Saunders	FR	NE	2900 Berry St.		Route 1, Jefferson, NC
Little Beverly Grace	FR	EE	13-B Vetville	Te-47758	Route 2, Box 224, Hickory, NC
Little, Fred Oscar, Jr.	FR	ARC		Te-47758	13-B Vetville, Raleigh, NC
Little, Robert Murray, Jr.	FR	ARC		Te-47758	1102 Wake Forest Rd., Raleigh, NC
Little, Talmadge	FR	AED		Te-47758	607 W. 4th St., Gastonia, NC
Little, William Brown	FR	NE	Alexander	Te-49746	836 Wellington Rd., Winston-Salem, NC
Littlejohn, William A.	FR	IA	Syme	Te-29222	Route 1, Goldsboro, NC
Littleton, David Marvin	SR	EE	Gold		Taiwan, Free China
Liu, Shing-gong	SR	POM	2512 Clark Ave.		111 S. Edison, Tampa, Fla.
Lively, John H., Jr.	FR	TC	Becton		Route 1, Linwood, NC
Livengood, Charles D.	FR	ME	Owen		601 Lincolnton Rd., Salisbury, NC
Livengood, Charles D.	FR	ME	Owen		Walstonburg, NC
Liverman, Herbert A., Jr.	SO	CE	Welch		

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Lloyd, Charles Edward	FR	CE	Tucker	Te-29323	1700 Fountain St., Charlotte, NC
Lloyd, Donald Gray	SR	WED	Watauga		2 Cooper St., Vayettesville, NC
Locke, John Joel	FR	CE	Owen	Te-29410	RFD #1 Enfield, NC
Lockey, Victor B.	FR	TX	Bagwell	Te-24412	1132 N. Alexander, Charlotte, NC
Locklear, James F.	SR	TX	Owen		RT #1, Gibson, NC
*Locklow, Wilbur LeMet	SR	CE	1323 Ridge Rd.	Te-27787	2330 Rosewood, Winston-Salem, NC
Loesch, Peter J.			106 Williams Hall		Queens Village, NY
Lofland, Charles M.	SR	IE	130 Woodburn	Te-46894	Box 239, Conover, NC
*Loflin, Chairman D.	SO	CE	1714 15A, Raleigh		RT #2, Box 122, Roanoke Rapids, NC
Lohr, George E. Jr.	FR	CEC	Owen	Te-29464	314 N. Aspan, Lincolnton, NC
*Lomax, John Y.	SR	ME	4C, Vetville	Te-43816	Guilford College, NC
Lombard, Charles	SO	NE		Te-42153	1092 Nichols Rd., Raleigh, NC
*Long, Donald Scott	SO	CE		Te-45958	1530 Brooks, Raleigh, NC
Long, George F.	JR	ME	Owen		High Point, NC
*Long, Harold Johnson	FR	EE	Owen	Te-29115	Box 43, Yadkinville, NC
Long, Joe Calvin			913 W. Johnson		417 N. Jrd., Mebane, NC
Long, Richard Bruce	FR	EE			104 Horne, Raleigh, NC
*Long, Robert W.				Te-40958	801 Kunnymede Rd., Raleigh, NC
*Long, WM. Thomas Jr.	SO	ME	507 Wayne Dr.	Te-40192	Cornelius, NC
*Long, Thomas B. Jr.	SO	EE	104 Horne	Te-48918	P.O. Box 1934, Winston-Salem, NC
Long, Zebulon Vance	FR	ME	Becton	Te-29372	RT #2, Tarboro, NC
Loughlin, Kenneth C.	FR	TX	Owen		1858 Queens Rd., Charlotte, NC
Loughlin, James David Jr.					RT #3, Box 328, Wilmington, NC
*Lourigon, George Henry	JR	TC	630 N. Blount	Te-39445	Kenuala, Wisc.
*Lowey, John Walter			4C, Vetville		Box 504A, Charlotte, NC
Love, Raeburn Lee	FR	E	Tucker	Te-29186	RT #1, Box 628, Concord, NC
*Lovin, Henry Grady	SR	FCM	Box 638 Cary		RT #1, Robbinsville, NC
*Lowdermilk, Wm. Porter	SR	CE	Owen	Te-49438	5408 Hillsboro, Raleigh, NC
Lowie, James L. Jr.	JR	SR	TX	Te-29115	N. Bridge, Elkin, NC
*Lowie, John W.	JR	IRR	20140 Smallwood		200 State, Delmar, Del.
Lowry, Eugene I.			2220 Hillsboro	Te-34339	2912 E. Center, Kingsport, Tenn.
Lucas, Chas. D.	JR	ME	Gold	Te-29263	
Lucas, John H.	FR	NE	Bagwell	Te-29131	RT #1, Box 322, Plymouth, NC
*Lucier, Arthur E.			Alexander		704 Runnymede Rd., Raleigh, NC
Luck, Harold Edward	SR	TX	Alexander		Cedar Falls, NC
Luckenbach, Roy Leon	SR	TC	3008 Ruffin	Te-23851	2228 Westfield, Winston-Salem, NC
Luczycki, Stanley S.	FR	PCR	Tucker		Great Bend, NY
Lupald, Hugh McCall	SO	FOR	Tucker	Te-29387	2928 Delaco Dr., Columbia S.C.
*Lupton, Amy O'Brian	JR	EE	913 New Bern	Te-49416	Oriental, NC
Luther, Robert W. Jr.	FR	GEE	Bagwell	Te-49151	1202 Woodruff, Elizabeth City, NC
Lutz, Everett Jacob	FR	HRT	Becton	Te-29334	RT #3, Lawndale, NC
Luther, Ted Williams	FR	AG	2209 1/2 Hope	Te-43244	Box 117, Candler, NC
Lutz, Graham, L.			AED		RT #2, Dallas, NC
*Lyda, Ellis Baxter	SR	AED	20B, Vetville		RT #1, Hendersonville, NC
*Lyda, George S.	SO	EE		Te-48085	931 Wilmington Terrace, Raleigh, NC
Lyday, Randal J.					
Lyday, Russell O.	SO	NE	Tucker	Te-29186	1610 Nottingham Rd., Greensboro, N
Lyerly, Harvey Dick	SO	ME	105 4th.	Te-29159	Box 116, Faith, NC
*Lynch, Walter Kenneth	SO	TX	505 Peebles	Te-36731	505 Peebles, Raleigh, NC
Lyne, Robert C. Jr.	JR	NE	3414 Hillsboro	Te-34808	4319 Fauquier, Richmond, Va.
Lynn, Franklin R.	SO	ARC	Berry		RT #4, Box 525, Durham, NC
*Lynn, Victor B.					RT #4, Box 525, Durham, NC
Lyon, Thomas Henry	FR	EE	Alexander		224 Monmouth, Durham, NC
*Lyon, Edwin B.	FR	EE		Te-34127	2303 McMullan Circle, Raleigh, NC
Lytle, Carroll Dean	FR	EE	Turlington		Old Port, NC
*Mabry, Clyde B. Jr.	JR	AED			Route 1, Norwood, NC
Mabry, Joseph Duke, Jr.	JR	AED	Bagwell		Route 3, Henderson, NC
Mace, David Lester	SR	CEC	Bagwell Ave.		Route 4, Lincolnton, NC
*Mace, Marshall Ellis	SR	PP			2376 Wesley Rd., Raleigh, NC
Maccarone, Joseph, John					56 High St., Fairport, N. Y.
Macrini, Dominic Mario	SR	IE	222 Hillcrest Rd.	Te-23429	Queens, New York
Mackay, Stanley Richard	SO	TX	Becton	Te-29372	Route 3, Greensboro, NC
*Madden, Cecil Gray	JR	ME			McKinnon Ave., Hamlet, NC
Maddox, Joseph Emerson	SO	GEE	Turlington	Te-29297	Springdale Lane, Gastonia, NC
*Madden, Paul Lee, Jr.	SO	EE	935 Wilmington Terr.	Te-48354	Route 1, Elon College, NC
*Maddrey, James T. Jr.	SR	IED	4-D Vetville	Te-48849	
Martin, Gus			2212 Hope Street		2417 Woodland St., Des Moines, Iowa
*Magee, Aden Combs	SR	AI	300 Chamberlain	Te-46814	301 Suffolk S. College Station, Texas
*Mageean, James Vernon	JR	NE	317 Calvin Rd.		317 Calvin Rd., Raleigh, NC
Mazette, Kindred Pope	SO	FOR	Owen	Te-29464	Courtland, Va.
Magill, Herbert Basil	JR	FOR	8 Forndell Land	Te-21755	Concord, NC
*Magistad, John Gilbert		ST	Patterson Hall		1048 Nichols Dr., Raleigh, NC
Maglio, John Michael	JR	IRR	Owen	Te-29115	Philadelphia, Penn.
Mahaffey, Robert Allen	SR	AED	Dairy Farm		4000 S Main St., Winston-Salem, NC
*Maine, Ellsworth Chapman	SR	PP	2634 Kilgore Ave.	Te-31826	Rhode Island
Maines, Chester W.	JR	TC	Owen		Route 7, Sparta, NC
Makly, George M.	JR	WH		Te-26543	2514 Sherwood St., Greensboro, NC
*Makhlof, Hassan, I				Te-35291	Egypt
Malcom, Herbert R.	JR	CHE	2501 Van Dyke		716 Rose St., Rocky Mount, NC
Mallard, Thomas Earl	FR	AG	Tucker		Trenton, NC
Mallard, Virgil Lee	SO	AI	Becton	Te-29256	Trenton, NC
Mallard, Wayne Anthony, Jr.	FR	AG		Te-00261	Route 1, Trenton, NC
Malley, Vincent W.			1806 Hillsboro		2225 Colony Rd., Charlotte, NC
Malstrom, Ben Arne			36 Dixie Drive		Finland
Malpass, James Bruce	FR	HAC	Owen	Te-29410	1208 E. Holly St., Goldsboro, NC
MaHese, Anthony Joseph	SO	TC		Te-40451	Glen Rock, New Jersey
*Manchester, Edwin Henley	SO	WPH	225 1/2 Forest Rd.	Te-26506	225 1/2 Forest Rd., Raleigh, N C

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Mancini, Gerald D.	FR	IE	Tucker	Te-29367	McKees Locks, Pa.
Mandakis, Basile J.	FR	EE	Tucker		2306 Queen St. Winston-Salem, NC
*Maner, James Dennis	JK	EE	2706 Bedford	Te-17745	Box 84, Franklinville, NC
Maness, John Kent	SO	PPT	Owen	Te-29252	Biscoe, NC
Mangum, Erle W. Jr.	SO	ME	Owen		2711 Beck Rd. Durham, NC
*Mangum, Erle A. Jr.	SR	ASC	31A, Vetsville	Te-44647	RT#4, Zebulon, NC
Manley, Fred W.	SO	AED	Tucker	Te-43932	RT#5, Reidsville, NC
Mann, Carroll L. 3rd.	SO	WGM		Te-29288	1412 Canterbury, Raleigh, NC
Mann, Daniel P.	SO	IA	Syme	Te-29188	Box 275, M. teo, NC
Mann, Edmund S. Jr.	FR	CE	Tucker	Te-29188	Isabella, Washington, NC
Mann, Robert Kent	JR	ATP	Owen	Te-29461	RT#1, Melane, NC
*Manning, Asa Moye	SR	CE	36B, Vetsville	Te-14011	Simmons, Williamston, NC
Manning, Don Pace	SO	ME	Owen	Te-29252	RFD#2, Box 60, Greenville, NC
Manning, Thomas R.	JR	TX	Barwell		310 Elm St., Weldon, NC
*Marcon, Bobby Donald					P.O. Box 114, Garner, NC
Margerum, Tay Harry			Bagwell		203 N. New Road, Absecon, NJ
Marinkov, George		IRR			Lebanon, Pa.
Markham, James Willis	FR	CE	Becton	Te-23922	709 Shepherd, Durham NC
Markis, Henry A. Jr.	SO	AGE	Tucker		2720 Mimosa, Wilmington, NC
Marley, Wm. Howard	FR	NE	Becton	Te-29261	190 Crestview, Southern Pines, NC
Marotta, Angelo	FR	IRR	Tucker		18 Wellington, Medford, Mass.
Marrows, Frank J.	FR	IRR	Turlington		493 Hopewell, Aliquippa, Pa.
Marriott, Robert H. Jr.	JR	EC	Tucker	Te-29186	Box 88, Battelboro, NC
Marrow, Thomas F. 3rd.	FR	CE	Owen	Te-29252	205 S. Pinewind, Goldsboro, NC
Marrah, Jerry Lee	JR	CEC	Welch		621 Joyner, Greensboro, NC
Marsh, Thomas F.	SO	CEC	Owen		Camden Rd., Wadesboro, NC
*Marshall, Henry Vance Jr.		FC		Te-21923	RT#1, Garner, NC
*Marshall, James V.					P.O. Box 687, Wendell, NC
*Martin, Arthur W.					502 E. Park, Cary, NC
Martin, Chreston F.	GR	NE	Becton	Te-29256	RT#1, Landrum, SC
Martin C. Moore	SR	NE	3414 Hillsboro	Te-34408	Danbury, NC
Martin, Edwin F.	SO	ARC	Syme		Kinston, NC
Martin, Everette L.	SO	PMK	409 Chamberlain		3001 Centennial, High Point, NC
*Martin, Frank G. Jr.	GR	EST			211 Groveland, Raleigh, NC
Martin, Harold L.	SR	CE	409 Chamberlain		3001 Centennial, High Point, NC
Martin, James C.	FR	ATP	Tucker		3001 Centennial, High Point, NC
Martin, Henry S.	SR	TX			Boonville, NC
Martin, Hubert C. Jr.	FR	EE	901 W. Johnson		35 Spring, Marion, NC
Martin, Jimmy D.	SO	EE	Bagwell		Lincolnton, NC
*Martin, Kenneth	JR	NE	Box 2225, Raleigh		Jonesville, NC
Martin, Larry R.		CE			Box 407 Southern Pines, NC
Martin, Paul V.	FR	EE	RT#2, Wake Forest, NC		East Bend, NC
Martin, Robert E.	FR	EE	Tucker	Te-29367	Box 545, Hildebran, NC
Martin, Nathaniel A.	FR	IRR	Syme	Te-29222	Danbury, NC
Martin, Roy H. Jr.	FR	IE	Becton	Te-29261	Hendersonville, NC
Martini, Ronald F.	FR	PMK	Tucker		New Rochell, NY
Mason, Richard B.	FR	ME	Tucker		1447 Oak Ave., High Point NC
Martin, Sammie L.	FR	MED	Syme	Te-29222	Statesville, NC
Maschi, John E.	GR	WT	2578 Clark		Main St., Chatham, Mass.
Mason, Frank D.					Kennedick, Wash.
Mason, Wm. Carl	FR	ME	Watauga		13 Locust, Canton, NC
*Martin, Wm. G.	AI		2624 Kilgore		Box 323, Arcadia, La.
*Mason, Wm. Henly Jr.	FR	EE		Te-37439	2408 Milburnie, Raleigh, NC
Martin, Wm. McA.	JR	AGP	Welch		RT#3, Mt. Gilead, NC
Mason, Carle W. Jr.	JR	TC	2501 Van Dyke		3422 Willow Oak, Charlotte, NC
Mason, Keith S.	SR	HRT	Fourth		Newport, NC
Mason, Homer L.	SO	MEA	Bagwell	Te-29412	108 Highland, Fayetteville, NC
Mason, Michael A. Jr.	SN	CHE	Welch	Te-29119	RFD#1, Beaufort, NC
Mason, Sterlin E.	SO	ATP	201 Chamberlain		RFD#2, Belhaven, NC
Massenburg, Edward S.	SN	MAG	Watauga		2508 White Oak, Raleigh, NC
Massengill, Roy H.	JR	EE			RT#2, Kenly, NC
*Massey, Ben F.	FR	ATP	1008 Faircloth		RT#3, Zebulon, NC
Massey, Mildred D.	FR	NE	YWSA	Te-49743	RFD#2, Tarboro, NC
Massey, Morgan T.	FR	EE	2407 Clark	Te-22480	1318 Catton, Charlotte, NC
Massey, Murray F.	FR	TX	Alexander	Te-29349	Jamestown, NC
Massey, Wm. W. Jr.	FR	CHE	Tucker	Te-29312	Wilmington, NC
Mast, Gerald R.	FR	NE		Te-38851	522 E. Whitaker Mill, Raleigh, NC
Mast, Wm. Howard	FR	CE	Turlington	Te-29192	Rominger, NC
Masten, Walter G.	FR	ME	Barwell	Te-29412	211 Carolina Circle, Winston-Salem, NC
Master, Charles Henry	JR	CE	2512 Clark	Te-24843	424 Hawthorne Lane, Charlotte, NC
*Mathews, George G.	JR	IE	414 Dixie Trail	Te-30493	RFD#, Laurel Hill, NC
Mathews, Albert B.	FR	AGE	Becton	Te-29374	RT#1, Wade, NC
Mathews, David A. Jr.	SO	CEC	Turlington		2239 Forest Dr., Charlotte, NC
Mathews, Douglas H.	FR	ME	Becton	Te-29372	1109 Herring, Wilson, NC
Mathews, Hubert I.	JR	ABC		Te-36605	RT#1, Cary, NC
Mathres, Kenneth V.	SR	FOR	Tucker	RT#1, Box 55,	Kennersville, NC
Mathews, Knox Van B.			511 Cole		Aberdeen, NC
Mathews, Richard W.	SO	ME	Tucker	Te-29312	101 Forestside, Greensboro, NC
Mathews, Robert F.	FR	IE	Alexander		4706 Western Blvd., Raleigh, NC
Mathews, Vassar C. Jr.	FR	ME	Tucker		Thomasville, NC
Matlocks, Robert L.	SO	FOR	Alexander		216 Main, Mayesville, NC
*Mattson, Edward Rae		GS	227 Kilgore		1705 McDonald Lane, Raleigh, NC
Mauldin, Hugh E.	FR	ME	Barwell		RT#W Box 166, Salisbury, NC
Mauldin, Ronald Lee	FR	MEA	Owen	Te-29410	Concord, NC
Mauney, Charles F.	SR	TC	Owen	Te-29437	807 E. King, Kings Mtn., NC
*Mauney, James H.	JR	CE	RT#1, Cary		RT#2, Cherryville, NC
Mauney, James Wm.	FR	CE	Becton	Te-29256	RT#4, Lincolnton, NC
Maxwell, Albert H. Jr.	SO	IE	Tucker	Te-29387	305 Tate, Morganton, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Maxwell, Allen J. 3rd.	JR	ARC	827 B. Daniels	Te-47491	1102 E. Pine, Goldsboro, NC
Maxwell, J. Kenneth	SO	MEA	Turlington		Box 11, Pink Hill, NC
May, James Lynn	FR	CHE	Becton	Te-29372	RT#2, La Grange, NC
May, Robert E.	FR	ARC	Owen	Te-29464	502 W. Lenoir, Kinston, NC
*Mayberry, Hassel G.	SO	IE	807 W. Person, Raleigh		RT#1, Lenoirburg, NC
*Mayo, Ben C. 2nd	SR	TX	124 Henderson	Te-46903	Tarboro, NC
Mayo, Gilbert W.	FR	NE	Tucker		Aurora, NC
Mayo, Willie A.	SR	ME			Charlotte, NC
Mayas, Bobby F.	FR	TC	Owen	Te-49836	1116 Spindale, Spindale, NC
Mazutis, Joseph C.	FR	IA	Becton	Te-29372	910 Sycamore, Washington, Pa.
McAdams, Robert M.	JR	NE	Welch	Te-29119	209 Front, Burlington, NC
*McArthur, Alvin D. Jr.	SR	ARC	803 D. Daniels	Te-48074	Box 190 RT#1, Greenville, NC
*McAllister, James	SR	IE	1720 Hillsboro	Te-40451	Kannapolis, NC
McAllister, James R. Jr.	FR	CRE	Turlington		Dinwiddie, Va.
McBrayer, Robert D.	SO	AG	Tucker		Box 412, Forest City, NC
McBride, James E.	FR	IE	Owen		RT#6, Mt. Airy, NC
McCall, Donald J.	FR	IE	2513 Clark	Te-20268	P.O. Box 164, Drexel, NC
McCall, Leroy W.	SR	IE	Alexander	Te-49746	Box #1, Baxton, NC
McCallum, Malcom David	FR	IE	Alexander		655 S. Bennett, Southern Pines, NC
*McGann, Robert L.	FR	IRR	12 A, Vetville	Te-39316	Alexandria, Va.
*McGarry, Richard W.	JR	AGY	RT#3, Raleigh	Te-46677	RT#8, Concord, NC
McCart, Gerald D.	JR	AGE	Berry	Te-29363	WE, Glenwood Village, Raleigh, NC
*McCartier, Bobby G.	JR	ME	13 Stadium	Te-49739	RT#1, Tryon, NC
McCaslin, Joe C.	JR	ARC	Tucker	Te-29379	RT#1, Maiden, NC
McCathern, Wm. Walker	Jr SO	ARC	Tucker		2225 Maiden Lane, Roanoke, Va.
McLaughlin, John Jr.	FR	ATP	Tucker	Te-20323	Box 308, Denton, NC
McClure, Harold M.	SR	CEC	32E. Vetville		RT#5, Franklin, NC
*McClure, Wm. McL.	FR	ME	Syme	Te-29222	32E, Vetville, NC
McColl, George H.	FR	CHE	Welch		Thomasville, NC
McConnell, Abram W.	SO	AI	Owen		104 Rankin, Mt. Holly, NC
McConnell, Charles	SO	AI	Owen		RT#2, Hendersonville, NC
*McCollum, Wetmer L.	SO	FOR	Becton	Te-29334	1938 Smallwood, Raleigh, NC
McCormick, Robert A.	JR	WCM	Alexander	Te-49746	RFD#2, Box 22, Fayetteville, NC
McCoy, Edward G.	SR	FOR			RT#2, Snow Hill, NC
McCoy, Harry Lee	SR	FOR			205 Center, Blancheater, O.
McCracken, Gene C.					2129 Buckingham, Raleigh, NC
*McCrary, W., G.	FR	IED	Tucker	Te-29367	RT#1, Cary, NC
McGain, Wm. Robert	FR	MEA	Bagwell		845, Ohio, Monaca, Pa.
McCreary, Homer G.	FR	CE	Owen		RT#1, Landis, NC
McCullen David S. Jr.	FR	GS	2013 Glenwood	Te-26714	RT#5, Dunn, NC
McCulloch, James E.					2013 Glenwood, Raleigh, NC
*McCutchan, David A.	SO	CHE		Te-41901	521 N. East, Raleigh, NC
*McDaniel, Earl W.	FR	IE		Te-34273	RT#2, Salisbury, NC
*McDaniel, Wm. R.	FR	FOR	Syme		RT#2, Box 132A, Raleigh, NC
McDaniel, Winfred	SO	ME	Syme		RT#1, McLeansville, NC
McDermott, Hugh A.	JR	ME	Becton	Te-29732	Vass, NC
McDonald, Glenn M.	JR	NE	Becton		Box 458, Elon College, NC
McDonald, Christopher	GR	AGY	2344 Grant	Te-49403	P.O. Box 255, West End, NC
*McDonald, Isaw	SO	ME	2 Stadium		P.O. Box 1909, Salisbury, S. Rhodesia
McDonald, Robert L.	SO	PM	Tucker		RT#4, Goldsboro, NC
McDowell, Bobby R.	SO	PPT	Owen		3035 N. Main, High Point, NC
McEachern, George H.	SR	NE	Alexander	Te-29349	2522 Guilford, Wilmington, NC
McElligott, Peter E.	FR	AG	Barwell		1621 Glenwood, Vestal, NY
McElroy, Clinton E.	SO	MEA	Owen	Te-29222	East Pine, Graham, NC
McElroy Wm. Louis	SO	IE	RT#1, Cary, NC	Te-35182	Box 465, Lake Junaluska, NC
McEntire, Harold G.	SO	OE	12 D. Vetville		Box 146, Cordova, NC
*McEwen, Arthur J.	JR	IA	13A, Vetville	Te-40684	Charlotte, NC
McFadden, Kenneth E.	FR	CHE	Tucker		3311 Freeman Mill, Greensboro, NC
McGahy, Jack E.	FR	CE	Tucker		High Point, NC
McGarr, Robert L.	FR	EE	902 W. South	Te-21722	RT#7, Lenoir, NC
McGauran, Merrill P.	SO	EE	2517 Clark	Te-37580	Chapel Hill, NC
McGavran, Edward G. Jr.	FR	WCM	Owen		2517 Clark, Raleigh, NC
McGee, David F.	JR	CEC	Stadium		Box 88, Ferguson, NC
McGee, George C.	JR	MEA	3123 Stanhope	Te-25251	Box 384, Snow Hill, NC
*McGee, Wm. E.	SR	EE	2314 Hillsboro	Te-34106	RT#8, Box 258, Greensboro, NC
McGeiver, Samuel F.	SR	AI	2403 Greenway	Te-47236	517 W. Kivett, Asheboro, NC
*McGinnis, Wm. C.	JR	CHE	720 Chamberlain	Te-40100	2403 Greenway, Raleigh, NC
McGinnis, Paul H. Jr.	FR	IA	Wesley Foundation	Te-31861	507 W. Gold, Kings Mtn. NC
*McGlavery, Neal V.	FR	IE	Bagwell		210 Wilmet, Raleigh, NC
*McGover, Troyce D.	SO	IE	Turlington	Te-29192	334 Angier, Raleigh, NC
McGrady, Robert A. J.	SO	IRR			RFD#1, N. Wilkesboro, NC
McGillroy, Robert A.	FR	E			64 Granit, Dorchester, Mass.
*McGuinn, Kerry C.	FR	E			2922 O'Berry, Raleigh, NC
*McGuire, David McG.	JR	AI	313 W. Park	Te-21636	2839 Barnettier, Raleigh, NC
McGuire, Robert Lee	JR	AG	Alexander		RT#2, Brevard, NC
McHan, Fred Lee	FR	PE	Tucker		RT#3, Box 216, Bryson City, NC
McInerwcy, Thomas J.	FR	CHE	Berry	Te-29350	123 Pine, Somerville, NJ
McIntosh, James P.	SR	PM	Alexander	Te-29222	RT#11, Box 645, Charlotte, NC
McIntosh, Jerry A.	FR	EE	Syme		1810 Wilmington, New Bern, NC
McIntosh, Thomas F.	FR	IRR	210 Vance Apts.	Te-29119	206 Norton, Mt. Holly, NC
*McIntyre, Daniel R.	FR	IE	Welch		RT#1, Oakboro, NC
McIntyre, David S.	FR	EF	Tucker		Pawtucket, R.I.
McIntyre, Johnny A.	FR	HRT	Greenhouse		Robbins, NC
*McIntyre, Martin L.	FR	TY	Owen		1206 Onslow, Raleigh, NC
McKay, Jeffrey J.	FR	IRR	6F, Vetville	Te-33204	Old Westbury, NY
McKeithan, Robert E.	SR	IE			RT#1 Box 126, Clarkton, NC
*McKenzie, James H.	SR	IE			Gastonla, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
McKenzie, James Marshall	SR	EE	Becton		Box 134, Salemburg, NC
McKenzie, Kenneth Edwards	SO	TX	120 Woodburn Rd.		400 Windsor Rd., Asheville, NC
McKenzie, Phillip E.	SR	TX	2514 Clark Ave.	Te-34522	466 Windsor Rd., Asheville, NC
McKenzie, William B.	SR	FOE	Boylan Apts.		Box 141, Rockingham, NC
McKinney, Donald Buddy	SO	ME	Tucker	Te-49739	Route 1, Reidsville, NC
McKinney, Kenneth L.	SR	TC	Turlington		1813 Oak St., Greensboro, NC
McKinney, Koyce L.	JR	ME	Pinelake Trailer Park	Te-38853	Box 205, Bakersville, NC
McKnight, Hugh M.	SO	EE	223 E. Lane St.	Te-29343	1319 Brehon St., Winston-Salem, NC
McKnight, Ernest Penn	SO	EE	223 E. Lane St.	Te-28140	504 Acadia Ave., Winston-Salem, NC
McLain, William Eugene	FR	SEB	120 Woodburn Rd.	Te-23701	43 Douglas Ave., Concord, NC
McLamb, Harold Dixon	JR	AGE	206 Gilbert Ave.	Te-24510	Route 2, Newton Grove, NC
McLamb, Thomas Warren	FR	CE	Syme		Box 502, Dunn, NC
McLaughlin, Foil W.					804 Hunnymede Rd., Raleigh, NC
McLaughlin, Tolley B.	SR	TX	1341 Chester Rd.		Route 4, Asheboro, NC
McLaughlin, Wayne M.	FR	AG	Syme	Te-29421	Route 3, Mooresville, NC
McLaurin, Carl M. Jr.	FR	ME	2014 Dixie Trail		Fayetteville Rd., Rockingham, NC
McLaurin, Floyd Allen	SR	EE	3414 Hillsboro	Te-44598	Route 1, Fayetteville, NC
McLaurine, William M.	FR	ME	Bagwell	Te-29412	141 W. Trade St., Burlington, NC
McLean, Arthur F. Jr.	FR	ME	Owen		567 S. Warley St., Florence, SC
McLean, Jack H.			5564 S. College Sta.		
McLean, Robert A.	JR	IE	Tucker		418 Wayne St., Raleigh, NC
McLead, Ingram B., Jr.	FR	CHE	Tucker	Te-29387	1516 N. W. Blvd., Winston-Salem, NC
McLendon, Lloyd E.	SO	ME	3414 Hillsboro	Te-29448	154 S. W. Blvd., Winston-Salem, NC
McLeod, John Edgar	FR	ME	Tucker	Te-29433	623 Kildee St., Lexington, NC
McLeod, Dick H.	FR	MEA	Tucker		1026 Fairway St., Orlando, Fla.
McLelland, Philip R.		CE		Te-30422	528 Hilltop Dr., Raleigh, NC
McLester, James Robert	FR	E	Owen	Te-29404	McMillan Ave., Lumberton, NC
McMahon, Phillo B.	SR	AI	537 E. Jones St.	Te-29444	Black Mountain, NC
McMain, Albert T.	SR	NE	2645 St. Mary's St.	Te-49414	Route 2, Richmond, Mich.
McMillan, Spruce, F.	JR	TX			1408 Crest Rd., Raleigh, NC
McMillan, Harry K.	GR	ME	1408 Crest Rd.	Te-49118	368 London Rd., Asheville, NC
McMinn, James W.	FR	FOR	Owen	Te-29410	205 Walnut St., Cary, NC
McMurray, William D.					621 Wesley Place, High Point, NC
McNatt, James Dobbin	SO	FOR			2617 Walker Ave., Greensboro, NC
McNeely, Maurice H.	SO	ARC	1720 Hillsboro	Te-40451	Box 222, Drexel, NC
McNeely, Ralph D.	FR	MEA	Bagwell	Te-29412	W. Second Ave., Red Springs, NC
McNeill, John Hugh		EE	Becton	Te-29456	Laurel Hill, NC
McNeill, Robert G.	SO	EE			Route 1, Maeford, NC
McNeill, Thomas A.	FR	AIP	Becton		Route 1, Clarendon, NC
McPherson, Grover C.	JR	AED	2100 Hillsboro	Te-46094	109 Hall Ave., High Point, NC
McPherson, Victor Winn	FR	CE	Tucker	Te-29387	3200 Tuckaseegee Rd., Charlotte, NC
McQuay, James Newton	SO	AG	Tucker	Te-29388	1115 Hill St., Greensboro, NC
Macrae, John S.	SO	ARC	2400 Delta Dr.		Laurinburg, NC
McRaine, Neal L.	JR	TX	Turlington	Te-29192	Box 366, Cary, NC
McSwain, Carl D.	FR	CHE	Owen		2622 Idlewood, Charlotte, NC
Meads, Ranson, S.		CE			498 Ridgeway Ave., Statesville, NC
Meadows, William S.	JR	MEA	Bagwell	Te-49151	Gloucester, NC
Meares, Elbert C.	SO	MEA	Becton		416 E 17th St., Charlotte, NC
Medlin, Charles H.	FR	CE	Owen		1809 Cochran Place, Charlotte, NC
Medlin, Judith	SO	HRT	1715 Park Drive	Te-20885	Route 1, Canton, NC
Medford, Bruce	SR	CE	College View Trailer PK.		38 Soco Street, Raleigh, NC
Medford, Richard B., Jr.	JR	MO	Owen		106 Clarkway St., Spay, NC
Meeks, Bobby Ray	FR	EE	Bagwell		316 Clayton St., Winston-Salem, NC
Meeks, Crawford R.	SO	ME	3018 Leonard St.		Box 31, Greensboro, N.C.
Meeks, Fredrick T.	FR	EE	Turlington		Virginia Rd., Montreat, NC
Meeks, James William	SO	EPY	1054 Park Ave.	Te-29404	Union Rd., Leaksville, NC
Meeks, Olin, J.	FR	CE	Owen	Te-29142	Box 53, Wadesboro, NC
Meeks, William T.	SR	EE	4 P Vetville		York Rd., Gastonia, NC
Melcel, John Robert	SO	AG	Tucker		432 Carpenter Ave., Mooresville, NC
Melchor, Archie O.	SO	CEC	Tucker		437 Terrace Dr., Pittsburg, Pa.
Meloni, David J.	JR	IRR	Bagwell		Route 2, Enfield, NC
Melton, Jesse Daniel	JR	AED	Owen	Te-29115	Durham, NC
Melvin, Raymond J.	JR	EE	4 Rosemary		Wagram, NC
Memory, Donald W.	JR	CHE	Purches St.		Montoursville, Pa.
Mendenhall, William	SR	EST	41 Vetville	Te-27796	Winston-Salem, NC
Mengler, Henry H.			2220 Hillsboro		Holland
Merrick, Maarten	SR	TX	Tucker		229 Walnut St., Statesville, NC
Merrick, Darrell V.	FR	EE	922 Tower St.	Te-20312	Shelby, Ala.
Merrill, James Mathis	SO	EE	Watauga		Route 2, Asheville, NC
Merrick, Austen D.	SC		2749 Clark Ave.	Te-29455	Yanceville Rd., Reidsville, NC
Merricks, James A.	FR	ME	Syme	Te-29150	2732 Layden St., Raleigh, NC
Merritt, Samuel C.	SO	EE			Route 1, Colerain, NC
Merritt, Thomas W.			1113 Stanhope Ave.		Route 4, Rockingham, NC
Mesha, Gray, H.	SO	EE	Syme	Te-29805	Swansboro, NC
Mestrich, Robert A.	FR	ME	Owen		1402 Wake Forest Rd., Raleigh, NC
Mettrey, William W.	FR	E	1402 Wake Forest Rd.	Te-32167	Route 3, Snow Hill, NC
Newborn, Richard A.	FR	AG	Turlington		2612 Glenwood Ave., Raleigh, NC
Meyer, George J.	SR	EE	2612 Glenwood Ave.	Te-45683	1284 S. Washington Ave., Charlotte, N.C.
Meyer, George M.	SR	CE	747 Hillsboro		114 Woodburn Rd., Raleigh, NC
Meyer, Harold D.	JR	SEE	132 Woodburn Rd.		6 Kings Terrace Rd., Great Neck, N. Y.
Meyland, Robert F.	JR	CON	1515 Scales St.		Route 1, Wilmington, NC
Michaels, James W.	FR	ME	Tucker	Te-29388	1304 Carolina Ave., Durham, NC
Michie, William H.	JR	MEA	703-C Daniels St.	Te-48621	132 N Lane St., Roxboro, NC
Mickle, Robert F.	SR	IRR	Berry	Te-29450	Box 442, Honesell, Va.
Mickle, Robin A.	SR	NE	300 Chamberlain St.	Te-36649	927 W 5th St., Winston-Salem, NC
Micol, Larry Joe	SO	EE	Welch	Te-29419	Route 1, Valdese, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Midyette, Robert E.	GR	AMA	125 Hillcrest		Fairfield, NC
Miketa, Donald A.	JR	WCM	Tucker	Te-29312	359 State, Baden, Pa.
Miller, Boyd C.Jr.	FR	ME	Becton		P.O. Box 1566, Salisbury, NC
Miller, Charles A. Jr.		DS			RT#1, Box 228, Lynnhaven, Va.
Miller, Charles F. Jr.	SO	ARC	202 Groveland #5	Te-33571	306 Marshall, Waynesville, NC
Miller, Charles H.	FR	EE	3008 Churchhill	Te-24788	3008 Churchhill, Raleigh, NC
Miller, Crawford P.	JE	EPY	6 Enterprise	Te-49151	RT#2, Albemarle, NC
Miller, Ernest T. Jr.	SR	ME	Bagwell	Te-37718	1418 1st, SW, Hickory, NC
*Miller, Gene Walker	GR	PPH	Botany Dept.	Te-49297	23 Daisy, Raleigh, NC
Miller, George K. Jr.	SO	ME	Turlington	Te-29388	Old Fort, NC
Miller, Henry E. Jr.	FR	NE	Tucker	Te-29186	Wilmington, NC
Miller, Henry V.	GR	RS	Gold		Winston-Salem, NC
Miller, Hugh M.	JR	TX	3414 Hillsboro		RT#4, Winston-Salem, NC
Miller, James S.	JR	TX	3414 Hillsboro		17 Cary Rd., Great Neck, NY
Miller, Jerry P.	SR	MEA	7 Enterprise	Te-40435	Box 126, Lenoir, NC
*Miller, Jerry W.	SO	ARC			720 Penn, Raleigh, NC
Miller, John A.	FR	CHE	Owen	Te-29252	634 Holland, Statesville, NC
Miller, Jos. H.	SR	TX	Owen		RT#1 Box 194, Rutherfordton, NC
Miller, Jos. R.	JR	ME	Alexander	Te-29257	RT#1, Box 88, Jefferson, NC
Miller, June D.	JR	FOR			Lleagmer Rd, Raleigh, NC
Miller, Marshall E. Jr.	JR	HAC	Tucker		7 Hillcrest, Concord, NC
Miller, Michael J.	SR	TX	#2 Logan Crt.	Te-33692	3120 Hillcrest, Allentown, Pa.
Miller, Robert B.	SO	MEA	Tucker		P.O. Box 126, Lenoir, NC
Miller, Sidney L.	SO	EA	Owen		1425 Sunset, Asheville, NC
Miller, Thomas D.	FR	EE	Becton	Te-49334	335 W. Center, Mooresville, NC
Miller, Wayne W.	JR	CEC	2513 Clark	Te-20268	RT#4, Box 516C, Greensboro, NC
*Miller, Wm. E.	JR	ME	College View Trailer	Te-29110	Box 157, Salisbury, NC
Miller, Wm. H.	JR	ME	Tucker		Box 225, Boone, NC
*Miravalle, Robert J.	GR	EST	12 Maiden Lane	Te-37578	Itaska, St. Louis, Mo.
Misenheimer, Jack R.	JR	CHE	1814 Park Dr.	Te-23698	Salisbury, NC
Misenheimer, James R.	JR	CE	2510 Vanderbilt		715 W. Graham, Shelby, NC
Misenheimer, Larry L.	JR	CE	Turlington		RT#1, Box 60, Richfield, NC
Misner, John A.	SO	IE	RFD#3, Raleigh		RFD#3, Raleigh, NC
Mitchell, Barbara A.	JR	EE	Becton	Te-29261	112 Lord Berkley, Raleigh, NC
Mitchell, Bobby G.	JR	EE	Becton	Te-29074	RT#5, Goldsboro, NC
Mitchell, Douglas V.	GR	FOR	1220 Pilmore		RT#2, Box 176A, Bartlesville, Okla.
Mitchell, Howard M.	FR	AGE	Owen		RT#1, Kenly, NC
Mitchell, James Thos.	FR	TX	Tucker	Te-29388	212E. 10th, Washington, NC
Mitchell, Lawrence W.	FR	AG	Watauga	Te-029132	RT#1, Walnut Cove, NC
Mitchell, Riley E.	JR	IE	Alexander		622 E. Tuzalo, Toccoa, Ga.
Mitchiner, David M.					Garner, NC
Mitchiner, Robert K.					219 St. Mary, Garner, NC
Mize, Wm. R.	FR	ARC	Watsuga	Te-29312	1005 Morning Glory, Durham, NC
Mizael, Edgar J.	FR	PPT	Owen	Te-29252	Bogalusa, La.
Miller, Wm. L. Jr.	JR	IA	Welch	Te-29119	RT#1, Beaufort, NC
Miller, Wm. S. 3rd.	JR	EE	Owen	Te-49836	RFD#1, Clemmons, NC
*Mills, Frank A. Jr.	SO	FMM	8A, Wilmont Apts.		125 Allison, Statesville, NC
*Mills, Gene A.	SR	IE	540 E. Hargett		Watha, NC
*Mills, Harold W.	JR	PPT	Alexander		RT#3, Box 208, Canton, NC
*Mills, Leon R.	GR	AI	706 Harris	Te-29884	Ft. Collins, Colo.
Mills, Wm. A. 3rd.	JR	TC	Alexander	Te-46947	P.O. Box 902, Tryon, NC
*Millwood, Ervin R.	FR	ME		Te-43188	812 Henderson, Raleigh, NC
Mims, Charles H.	SR	EE	909 Peace Terr.	Te-20801	806 N. Boylan, Raleigh, NC
*Minda, Samuel L.	SO	CHE	Syme	Te-45874	909 Peace Terrace, Raleigh, NC
Mink, Wm. M.	SO	CHE	Syme		RT#3, Winston-Salem, NC
Mink, Lawrence A.	JR	NE	Tucker	Te-29186	RT#1, Box 313, Winston-Salem, NC
Minshaw, Royal H. Jr.	SO	ARC	Stadium	Te-49803	Asheboro, NC
Minter, Frank E. Jr.	SR	EPY	3414 Hillsboro	Te-34808	1004 W. Forest Hills, Durham, NC
*Minugard, Kelly	FR	REC	131 S. Boylan		RT#3, Raleigh, NC
Mion, Lino E.	FR	CE	Owen		4 Proctor, Binghamton, NY
*Mochrie, Richard D.	JR	MEA	A.I. Dept.	Te-29192	116 Byrum, Cary, NC
Modlin, Clarence, T. Jr.	SO	ME	Turlington		296 Wilson, Laurinburg, NC
Moffitt, James D.	JR	ME	Syme		
Moffitt, Roy B.	PR	CER	206 Chamberlain	Te-32478	420 Scott, Greensboro, NC
Mohammed, Atalla S.	GR	AGY	P.O. Box 5828 State		Iraq
Moll, Robert H.	GR	AGY	3001 Lewis Farm	Te-29994	Eden, NY
Mollinax, Bobby	GR	GEE	Berry		RT#1, Flat Rock, NC
*Molodget, Vic A.	SO	TX	221 Forrest		605 Sades, Raleigh, NC
Moncada, Francis J.	SO	TX	Becton	Te-29372	Brooklyn, NY
Mongo, Perry L.	SO	CEC	Becton		Box 173, Pageland, S.C.
Monroe, Wm. N. Jr.	JR	ME	Alexander	Te-43882	Biscoe, NC
*Monsees, Claude E.	SR	ME			2245 Noble, Raleigh, NC
*Montague, Bobby L.	SR	HAC	801 Newbern		RT#5, Raleigh, NC
*Montague, Wm. R.	FR	CE	603 Dixie Trail		1305 N. George, Goldsboro, NC
*Monteith, Larry K.	FR	EE		Te-47270	908 Marilyn, Raleigh, NC
Montero, Lindell J.C.	JR	TX	Alexander		Montevideo, Uruguay
Montgomery, Jesse F.	SO	MEA	Owen	Te-29115	RT#3, Smithfield, NC
Montgomery, John W.	JR	NE	Sigma Nu Frat.		Mitchelle College, Statesville, NC
Montgomery, Malcolm H.	FR	AI	Dairy Farm	Te-29763	RT#1, Semora, NC
Moody, Melvin L.	FR	PPT	Tucker	Te-29388	West Point, Va.
Moody, Nancy Ann	JR	AG	210 W. Franklin	Te-26533	210E. Franklin, Raleigh, NC
Moody, Paul S.	FR	FOR	Owen	Te-29464	328 Carter, Harriman Tenn.
Moody, Robert R. Jr.	SR	EE	992 Peace Terrace	Te-42031	Route 4, Charlotte, N. C.
Moore, Arnold Gray	SO	EE	College View Trailer Pk.		College View Trailer Park, Raleigh, NC
Moore, Augustus Beamon	JR	LA	Phi Kappa Tau	Te-27030	
Moore, Billy Lee	SR	WCM	2718 Clark Ave.	Te-34545	Route 2, New Bern, NC
Moore, Billy Rawls	JR	CE	812 Wilmington Terrace		812 Wilmington Terrace, Raleigh, NC
Moore, Bobby Lee	JR	CE	400 Hallow St.		2363 Bernard St., Raleigh, NC
Moore, Bryce Hood	SO	CHE	2609 Clark Ave.	Te-41384	205 Center St., Spindale, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Moore, Carroll Gene	JR	EE	407 Avery St.		1615 Trexler St., Gastonia, N.C.
Moore, Charles Willard	FR	FOR		Te-35868	326 Maywood Ave., Raleigh, NC
Moore, Crawford Dowman	FR	CEC	Turlington	Te-49279	Route 1, Franklin, N. C.
Moore, Curtis Eugene	FR	CE	Owen		Route 2, Hurdle Mills, N. C.
*Moore, David Robert	SO	EE	428 Raleigh View Rd.		Route 2, Madsen, N. C.
*Moore, Donald Lee	SR	EE	440 Halifax St.		1418 S. Park Ave., Burlington, NC
Moore, Douglas Knight	FR	WE	Owen	Te-29410	Box 113, Roseboro, NC
*Moore, Ernest George	SR	EE	Route 1, Cary,	Te-33222	7705 Old Chester Rd., Bethesda, Md
Moore, Glenn E.	JR	AH	218 N. East St.	Te-24919	Star Route, Catawba, NC
Moore, Harry D. Jr.	FR	NE	Owen	Te-29410	51 Glendale St., Concord, NC
Moore, James Godwin	FR	CE	Bagwell	Te-29131	1123 Tarboro St., Rocky Mount, NC
Moore, James Reid	FR	CE	218 N. East St.		Star Route, Catawba, NC
Moore, Jack D., Jr.	FR	DM	Tucker		304 Hale St., Waynesville, NC
Moore, Joseph Ralph	FR	GS	520 E. Hargett St.	Te-29673	520 E. Hargett St., Raleigh, NC
Moore, Lanny Navarr	FR	HAC	Tucker	Te-44739	1104 Siwell Ave., Greensboro, NC
Moore, Leo U.	SR	ED	35H Vetville	Te-66642	Main St., Four Oaks, NC
Moore, Nathaniel H.	SR	IED	Bagwell	Te-9412	112 Riverside Dr., Washington, NC
Moore, Ormand K.	JK	TX	Syme		Route 2, Greensboro, NC
Moore, Paul Merritt	FR	ME	Owen	Te-49836	Box 505, Southport, NC
Moore, Robert Burton	FR	AG	Tucker	Te-49739	Route 2, Summerfield, NC
Moore, Robert Carl	FR	EE	Tucker		Box 429, Drexel, NC
Moore, Ronald Baxter	JK	TX	Owen	Te-29464	Route 2, Franklinton, NC
Moore, Sidney C.	FR	TX	Tucker	Te-9186	Route 1, Durham, NC
Moore, Thomas Kerr, Jr.	SO	TX	2514 Clark Ave.	Te-42451	2623 Roswell Ave., Charlotte, NC
*Moore, Thomas Monroe	SR	CE	35H Vetville	Te-66642	35H Vetville, Raleigh, NC
Moore, William Davis	FR	II	Owen	Te-29410	Box 373, Hillsboro, NC
Moore, William D.	SR	TX	Alexander		Route 2, Marshville, NC
*Moore, William D.	SR	FFM	2713 Vanderbult Ave.	Te-22483	North Wilkesboro, NC
Moore, William N.	FR	IE	Tucker		231 East Broad St., Statesville, NC
Moreadith, Frederick L.	SO	CE	3013 Wade Ave.	Te-36252	3013 Wade Ave., Raleigh, NC
Morena, Thomas C.	FR	EE	Bagwell	Te-49151	3021 Marborough Rd, Charlotte, NC
Morgan, Harold Marvin	SO	PPT	305 Brooks Ave.		Route 3, Candke, NC
Morgan, James Alvin	FR	FOR	Syme	Te-29421	West Terrace Ants., Asheville, NC
Morgan, James Probus	FR	AG	Bagwell	Te-29131	Route 5, Henderson, NC
*Morgan, Jesse W.	SR	SED	2127 Lyon St.	Te-48319	2327 Lyon St., Raleigh, NC
Morgan, Joe Frank	FR	EE	Syme		Woodleaf, NC
Morgan, John Robert	FR	HRC	Tucker		502 Cardthers Ave., Carnegie, PA.
Morgan, Otis Cleveland	SO	PPT	305 Brooks Ave.		Route 3, Candler, NC
*Morgan, Billy Jr.	FR	AGE	23 Vetville	Te-34073	Route 4, Kershaw, SC
Morgan, Ray Edward	SO	ME	Tucker		125 Howland Rd., Asheville, NC
Morgan, Raymond, W.	FR	CE	Becton	Te-29334	1019, Highland Ave., Salisbury, NC
Morgan, Samuel Dean	JR	IA	115 Woodburn Rd.	Te-22933	49 Pulliam St., Marion, NC
Morgan, Tom Adam	SO	AKD	1054 Park Ave.,	Te-49404	Route 1, Oakboro, NC
Morog, Joseph V.	SO	ARC	Berry	Te-31712	90 Edgar Ave., Buffalo, N. Y.
Morris, Clara Elizabeth					301 Brooks Ave., Raleigh, NC
Morris, Donald S.	JR	AGC	2718 Clark Ave.	Te-26451	Route 2, Columbia, NC
Morris, Donald Scott	JR	AGE	Becton		Freemont, NC
Morris, Jerry Matheson	SO	AED	203 Groveland Ave.	Te-26861	Route 2, Laurinburg, NC
Morris, John Calvin	JR	ANC	2220 Hillsboro		Edgewood Knoll, Asheville, NC
*Morris, Melvin K.	SO	IE	1508 Frank St.		1508 Frank St., Raleigh, NC
*Morris, Richard Wallace	SO	EE	44 Vetville		Hockingham, NC
Morris, Roderick H.	JK	HNT	2718 Clark Ave.	Te-26451	Route 1, Maxton, NC
Morris, William Rufus	SO	CEC	Berry		Route 8, Charlotte, NC
Morrison, Malcolm B.	FR	EE	Tucker		P.O. Box 164, Howland, NC
*Morrison, Robert D.	SR	EST	2605 Wayland Dr.	Te-47897	2605 Wayland Dr. Raleigh, NC
Morrison, William O. Jr.	FR	TX	Bagwell	Te-29131	113 Highland Ave., Burlington, NC
Morrow, Robert Allen	SO	ME	Syme		500 S. Hayne St., Monroe, NC
Morrow, Roger L.	SR	TX	3414 Hillsboro St.	Te-45671	1017 N. Main St., Burlington, NC
Morrow, Victor Eugene	SO	MEA	Becton	Te-29334	Route 1, Burnsville, NC
Morton, Bob S.	SR	CE	93 Dorm	Te-29189	Route 1, Albemarle, NC
Morton, Dorothy Jean		LA	47 Dixie Dr.	Te-28484	47 Dixie Dr., Raleigh, NC
Morton, Marion H.	JK	ANC	7 Enterprise St.	Te-40435	227 N. 9th St., Albemarle, NC
Morton Ralph Lee	SO	AG	Bagwell		Route 2, Jacksonville, NC
Morton, Terrence O.	SO	ME	Tucker		Morven, NC
*Moser, Guy M.	JR	EE	613 Oak Rd.	Te-49836	309 Elmore, Charlotte, NC
Moser, James Norman	FR	TX	Owen		Route 1, Rockwell, NC
Moser, James Robert	FR	CE	Tucker		2706 Randleman Rd., Greensboro, NC
*Moser, Richard Earl	FR	HAC	1217 Kent Rd.	Te-47235	220 Midland Dr., Asheville, NC
*Mosheim, Joseph D.	JR	ME	567 N. Person	Te-49475	567 N. Person St., Raleigh, NC
Mosley, Bobby Earl		ME	710 W. Jones St.		710 W. Jones St., Raleigh, NC
Mosley, Julian D.	FR	ME	710 W. Jones St.		22nd St., Butler, NC
Moss, Claude W.	JR	DM	Farmhouse	Te-46094	Route 1, Rural Hall, NC
Moss, Dan Schuyler	JR	AGY	2713 Vanderbult Ave.	Te-34916	Route 2, Enfield, NC
Moss, Donald Luther	FR	CE	Tucker	Te-29387	457 7th St., Hickory, NC
Moss, James David	JR	IE	Owen	Te-29115	105 N. Liberty St., Gastonia, NC
Moss, Jimmy S.			2613 Van Dyke Ave.		Route 6, Fayetteville, NC
Moss, Marylin K.	SR	NE	120 Cox Ave.		912 N. Main S., Burlington, NC
*Moss, R. V.					204 Park Ave., Raleigh, NC
Moss, Samuel Hodges	SR	FFM	17-D Vetville		112 Kincaid Ave., Wilson, NC
Moss, Walter Lee	SR	ME	Turlington		Route 1, Rutherfordon, NC
Mosquera, Eduardo	JR	AGY	Watauga		Box 144, Caracas, Venezuela
Mote, Vasant	SR	ST	203 Chamberlain St.		India
Mott, Harold	SR	EE	2018 B. Smallwood		Caroleen, NC
Mottinger, Walter Thos	SO	ME	Tucker	Te-29323	Route 7, Burlington, NC
*Mowery, Alfred L.		NE	Daniels St.		807 Daniels St., Raleigh, NC
Moxley, William D.	SR	CHS	3014 Mayfield Rd.	Te-31718	3014 Mayview Rd., Raleigh, NC
Moxingo, Wilbur E.	FR	ME	Owen	Te-29464	401 Greenmead St., Kinston, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Mosuraitis, Robert F.	SR	TX	19F,Vetville		1909 Alexander,Raleigh,NC
Mudge, Harley L. Jr.	FR	ME	Tucker	Te-29323	1416 Overbrook,Burlington,NC
Mueller, Otto Wm.	FR	PC		Te-48066	201 Ashe, Raleigh, NC
Mulja, Taylor H.	SR	PPT	2706 Peachtree	Te-42635	2339 Kingbury,Charlotte, NC
Mulkey, Marcus A.	SR	IA	3821 Western Blvd.		1216 Brookstow,Winston-Salem,NC
Mullen, Robert A.	JR	SE	Alexander		RT#7, Box 512,New Bern, NC
Mullenn, Stephen T.	SO	CHE	Tucker	Te-29323	Box 503, Haw River, NC
Mullis, Elbert S.	FR	ARC	Avent Ferry Rd.	Te-41967	104 Palmer, Lenoir, NC
*Mullis, James D.	FR	EE	Syme		Box 506, Lenoir, NC
Mullis, Thad McCoy	JR	IE	Tucker	Te-29367	Asheville, NC
Mulvaney, James N.					2702 Clark, Raleigh, NC
Murchison, Murdock B.	FR	NE	Owen	Te-49836	Southport, NC
Murdaugh, Wm. H.	SO	EE	1106 Parker		Wildwood, NC
*Murdock, Andrew W.	SO	AG	Owen		RT#1, Farmville, NC
Murphey, Hiram G.	FR	MEA	Syme	Te-29288	800 Mulberry,Beaufort,NC
Murphy, James C.	FR	ME	Tucker	Te-29387	P.O. Box 231, Leaksville, NC
Murphy, James D.	FR	IA	Alexander	Te-49746	Mocksville, NC
Murphy, Joe E.	FR	IA			530 N. Blount, Raleigh, NC
Murray, Merritt L.	FR	AG	Syme		Rose Hill, NC
Murphy, Wendell H.	FR	IA			Philadelphia, Pa.
Murphy, Wm. F. 3rd.	SR	CHE	1045 Dawson	Te-27744	215 Spring, Thomasville,NC
Mure, George F.	SO	DS	Syme		RT#5, Asheville,NC
Murray, Maurice T.	SO	EE	Bagwell		4203 Western Blvd.,Raleigh,NC
*Morrow, Carolyn H.	AG				605 S. Lindell, Greensboro,NC
Morrow, James Wm. Jr.	SO	EE	Tucker		4203 Western Blvd., Raleigh, NC
*Morrow, Jos. S.	SO	EE		Te-49440	RT#1, Greensboro, NC
Murrow, Joshua, E. Jr.	GR	TX	Gold		Halifax, NC
Mussack, Nicholas	PR	EE	Berry	Te-49836	Asheville, NC
Mutton, James O.	JR	IRR	Owen		704 Boylan Dr.,Raleigh, NC
*Myat, Billy	JR	FMM	106 Horne		116 Pine, Badin, NC
*Myers, Allen F.	SR	TX	Owen		P.O. Box 175,Mayonon, NC
Myers, Clifton A.	FR	TX		Te-44219	404 W.Aycock,Raleigh, NC
Myers, Donald Ray	FR	ME	2512 Clark		307 Taylor,Thomasville,NC
Myers, Doyle C.	JR	ME	Tucker	Te-29388	2546 Reynolds,Winston-Salem,NC
Myers, Guy A. Jr.	SR	IRR	Alexander		Box 106, Hoffman, NC
Myers, Paul T.	JR	E	Syme		530 Park, Pigma, O.
Myers, Robert H.	FR	EE	Tucker	Te-29323	2372 Ruby, Augusta, Ga.
Myrick, David Lee	SR	TX	Gold	Te-29263	RT#1, Star, NC
Myrick, Jimmie D.					
Nance, Charles M.	SR	TX	Gold	Te-29263	742 Park, Greensboro,NC
Nance, Michael A.	FR	FOR	Bagwell		Cerro Garden,NC
*Nance, Robert L.	FR	EE	Tucker		1305 Duplin,Raleigh, NC
Nance, Robert N.	JR	CHE	Riddick		500 E.Wright, Winston-Salem,NC
Nandapurka,Shamrac S.	GR	IA	Box 5174 State	Te-38545	Parbhani, India
*Nanney, Joseph H.	JR	IRR	Owen		1038 Justice,Hendersonville,NC
Nardone, Michael Jr.	SR	NE	2645 St. Mary	Te-40414	601 South, Peekskill,NY
Narin, Francis	JR	EE			Marion, Pa.
Narron, Artis M.	GR	EE			RFD#2, Kenly, NC
Narron, Tommy A.	JR	AG	201 Fourth		RT#2, Kenly, NC
Naoum, Anis Nima-Allh W.	SR	ENT	P.O.Box 5774	Te-30946	P.O. Box 5774, Raleigh,NC
*Napier, Samuel H.	SO	EE		Te-44130	1508 Frank,Raleigh, NC
*Narmon, Billy F.	JR	CE	301 1/2 Bickett		301 1/2 Bickett, Raleigh,NC
Nash, Averett, F.	JR	ME	215 Woodburn		St. Pauls, NC
Nash, John Lee	JR	ME	Owen		316 Hellig,Salisbury,NC
Nassar, Mohamed Rido	FR	EE	Becton		Aleppo,Syria
*Nauss, Frank P.			Athletic Dept.		538 Smith, York, Pa.
*Nowes, Rachel F.	GR	IPS			3021 Banbury, Raleigh, NC
Naylor, Jackie D.	JR	MEA	Owen	Te-37680	503 Park, Clinton, NC
*Neal, Bobby Gene	FR	CE	1510 Simokins	Te-49779	Forest City,NC
Neal, Cecil L.Jr.	FR	MEA	Tucker	Te-29150	Box 85, Cataloan, NC
Neal, James Lewis	FR	CE	Syme		RT#1, Providence,NC
*Neal, Wm. E.	SO	WCM			2706 Clark, Raleigh, NC
Neathery, Clifton R.	JR	CE			Halifax, NC
Neckman, William Alan	JR	CEC	5 1/2 Dixie Trail	Te-29927	New York, N. Y.
Needham, Royal R.	JR	AED		Te-24170	2724 Barmettler St., Raleigh, NC
Neely, Harry Lee, Jr.	JR	HRT	308 Horne St.	Te-20750	2121 Sarah Marks, Charlotte, NC
Neely, Robert Mason	SO	TX	2612 Clark Ave.	Te-20671	100 Fernwood Dr., Rutherfordord, NC
Neese, John Carroll	FR	ME	Owen		Route 10, Greensboro, NC
*Neiman, Egnest					1617 Glenwood Ave., Raleigh, NC
Nelson, Arnold			4160 Alexander	Te-42983	Topton, NC
Nelson Earl J.	FR	CE	Hallifac Courts	Te-28764	3 Waverly Rd., Asheville, NC
Nelson, Ralph M.	FR	IE	123 Brooks Ave.	Te-28703	Route 5, New Bern, NC
Nelson, Raymond Douglas	JR	WCM	15 Rosemary St.		68 Carthage Rd., Scarsdale, N. Y.
Nelson, Roger Alan	JR	WFM	Berry		Route 10, Greensboro, NC
Nelson,Samuel Leo	FR	EE	Owen	Te-49836	728 S. Kimbrough St., Raleigh, NC
Nelson, Winford Lee					152 Green St., North Andaver, Mass.
Nery, Joan Marie	SR	MA	1321 Brooks Ave.		1428 Deer Court, Henderson, NC
Nethery, Robert Lee, Jr.	FR	TX	Becton	Te-29412	479 Magazine St., New Braunfels, Tex.
Neuse, Durwood H.	SO	EE	Bagwell	Te-29372	Route 1, Plymouth, NC
Newberry, Joseph H.	SO	CE	Becton		Route 2, Lexington, NC
Newby, John Roger	SO	ATP	Becton		402 Maple St., Greenville, NC
Newell, John Richard	SO	CHE	Syme	Te-29288	251 Grove Park, Danville, Va.
Newlin, John Henry	SO	ME	Becton	Te-29256	Route 1, Henderson, NC
Newman, Randolph M.	FR	CE	Syme		Route 5, High Point, NC
Newton, Charles Billy	SO	EE	Bagwell	Te-49151	Route 1, Watha, NC
Newton, Ernest Elvin	FR	IA	408 Elm St.	Te-20226	Box 972, Wilson, NC
Newton, Henry Lynn	SO	EE	106 Harrison St.		

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Nicholas, Carmine F.	SR	ZO	115 W. Park St.	Te-24357	703 S. Union St., Concord, NC
Nichols, Durward, S.					407 Bickett Blvd., Raleigh, NC
*Nichols, Linny Glenn	JR	EE	29C Vetville	Te-20200	17 Julian Ave., Thomasville, NC
Nichols, Ronald Allen	FR	BN	Becton	Te-29334	Route 1, Raleigh, N. C.
Nichols, Thomas E.	SR	AGC	508 Dixie Trail	Te-32509	Route 5, Raleigh, N. C.
*Nichols, William Colvin	SO	ARC	Becton	Te-29334	308 Martinwood Rd., Birmingham, Ala
Nicholson, Edward, D.	SR	IE	Syme	Te-42001	Southern Pines, NC
Nicholson, Harold Lee	SO	EE	Alexander	Te-29222	1203 Summit Ave., Greensboro, NC
Niederborn, Paul E.	JR	NE	1200 Pargue St.	Te-29349	114 Forest Ave., Pearl River, N. Y.
*Nielsen, August, J.	SR	PP	3208 Darien Dr.		Edenwille, NC
Nielsen, Michael Jon	SO	MEA	3208 Darien Dr.	Te-41689	3208 Darien Dr., Raleigh, NC
Nifong, Wayne Eugene	SO	AG	Owen	Te-29115	Route 4, Winston-Salem, NC
Nimmo, Charles F.	SR	TC	1408 Hillsboro	Te-22262	504 Greenbriar Circle, Greensboro, N.C.
*Nishikawa, Bunshino	SO	TX	119 Hawthorn Rd.	Te-22408	Tokyo, Japan
*Niven, Benjamin F.	JR	ME	2709 Mayview Rd	Te-47845	2709 Mayview Rd., Raleigh, NC
*Nivison, Arthur Edward				Te-32932	Route 1, Raleigh, NC
Nix, Harley Clyde	FR	NE	Becton	Te-29334	284 State, Asheville, NC
Nix, John W.	SO	TX	Turlington		RT#2, Rutherfordton, NC
Nixon, Charles O. Jr.	JR	TX	Syme	Te-29421	Cramerton, NC
*Nixon, David C.			819C Daniels St.		612 S. Main, Charlotte, NC
Noble, Chappel N.	FR	E	Becton	Te-29172	Box 68, Fairview, NC
Noble, Leonard Ray	FR	IE	Syme		Hilma Circle, Tarboro, NC
Noble, Osborn E.	SO	FE	Tucker		Greenville, NC
*Noble, Robert Dale	SR		330, Vetville	Te-49044	1336 St. Jean, Charlotte, NC
*Noble, Walter B. Jr.					980 Peace Terrace, Raleigh, NC
*Noe, Samuel V.	JR	ARC	205 W. Park Dr.		214 Club, Louisville, Ky.
Noell, Paul M.	SO	IE	Barwell	Te-47191	110 W. Markham, Durham, NC
Nohl, Peter F.		TX	Turlington	Te-29115	Greensboro, NC
*Nolan, James M.			20P, Vetville		
Norman, Donald W.	JR	EE	Becton		RT#1, Box 21, Mt. Airy, NC
Norman, Henry C.	FR	CE	Owen	Te-29115	Box 68, Fairview, NC
Norris, Charles R.	JR	CE	Welch		RT#2, Wallace, NC
Norris, Francis W.	JR	CE	Welch		P.O. Box 5691, Raleigh, NC
Northcutt, Lee I.	SO	CE	Syme	Te-29222	116 Halifax, Raleigh, NC
Norton, Charlie Ray	SR	FGM	Wauzuga		Box 514, Highlands, NC
Norungolo, Michael P.	FR	ME	Bagwell	Te-49151	Sanford, NC
Norville, John A.	SO	IE	120 Woodburn	Te-23701	263 Maple, Brevard, NC
*Norwood, Hart L.	JR	ARC	2011 Park		Box 8, Kith, Winston-Salem, NC
*Norwood, Ronald George	JR	FGM	1324 Canterbury	Te-23694	1324 Canterbury, Raleigh, NC
Nowack, Vincent T.	JR	TC	2512 Clark	Te-24843	RT#4, Box 855, Kenosha, Wisc.
*Nuckolls, Edward W.	JR	IE	358, Vetville	Te-42038	RT#5, Hendersonville, NC
*Nuckolls, Joe A.	JR	EE	11D, Vetville		RT#1, Hendersonville, NC
*Nunes, Manuel Arturo	JR	IE			1108 W. Lenoir, Raleigh, NC
Nye, Kenneth E.	SO	FOR	Alexander		Box 579, 201 Graham St., NC
*Nye, Phares S.	FR	ARC			1143 E. Park, Raleigh, NC
Oaks, James Lee	SO	IA	Turlington		1401 Wade St., Alenuppa, Pa.
Oates, Norwood K.	SC	PA	Becton	Te-29334	1725 Murray, Durham, NC
*O'Brian, James L. Jr.	FR	EE	Becton	Te-29334	5111 Baker, Charlotte, NC
O'Brien, George F.	FR	CE	Owen		Box 68, Fairview, NC
O'Brien, John M.	JR	NE	Owen		426 Courtland, Sanford, NC
O'Connell, James Lee	SO	ME	Syme		Watson, Sanford, NC
O'Connell, Larry S.	FR	E	Syme		2300 W. Market, Greensboro, NC
O'Connor, Daniel D.	JR	HRT	2511 Clark	Te-20268	Box 5, Monrovia, Alameda, NC
Oddo, James J.	SO	ED	Barwell		RT#1, Grifton, NC
*Odham, James W.					2104 Metts, Wilmington, NC
*Odin, Bernice W.			5E, Vetville	Te-43919	Plumtree, NC
Odom, David Vance	SR	IRR	Turlington		1719 Roxboro, Durham, NC
Odom, James A. Jr.	JR	ARC	2426 Hillsboro		1151 Vyne, Rocky Mount, NC
O'Donnell, John W. Jr.	FR	IRR	Becton		303 Sampson, Clinton, NC
Odum, Robert T.	JR	IE	1906 Hillsboro	Te-46165	Greensboro, NC
Ogburn, Thomas L. Jr.	FR	MFA	Tucker	Te-29367	5104 Wilkin, Charlotte, NC
Ogden, Charles H.	FR	ME	Syme	Te-29222	36 Sarasota, Spantun, Mass.
Oggerino, James P.	FR	NE	Tucker	Te-29367	Box 65, RT#1, Valdese, NC
Ogle, John M.	FR	AIP	Tucker		RT#4, Box 276, Georgetown, S.C.
*O'Hara, George R.	FR	FOR	Barwell	Te-29410	409 O'Farrell, Greensboro, NC
O'Farrell, Lewis Ray	SO	IE	St. Box 5-23		Ankara, Turkey
Okay, Aydogan					Box 41, Eden, Spring Lake, NC
O'Kelley, Dewey T.	JR	EE	Owen	Te-47810	Whaleyville, Va.
Oliver, James R.	JR	IA	Tucker		413 Davis, Smithfield, NC
*Oliver, John H.	JR	ME	207 Poplar	Te-37932	Southern Pines, NC
Oliver, Lawrence W.	JR	MEA	2702 Hillsboro	Te-21835	Creswell, NC
Oliver, Maurice H.	JR	AED	21 Enterprise	Te-29368	2224 Winter, Charlotte, NC
Olson, Robert L.	FR	NE	Tucker	Te-29360	RT#1, Middlesex, NC
Olund, John E.	JR	AGY	Berry		Lumberton, NC
*O'Neal, Robin T.					Mamers, NC
O'Quinn, Charles N.	JR	WPM	Turlington	Te-29297	1908 Blvd., Lumberton, NC
O'Quinn, George D.	FR	ARD	Alexander	Te-37947	Wayhville, NC
O'Quinn, Wm. Lewis	FR	ME	Turlington		Wayhville, NC
Orcutt, Robert S.	FR	EE	Becton	Te-19836	Asheville, NC
Ordery, Lenard R.	SO	FE	Owen	Te-47191	Wayhville, NY
Ormsland, Alan H.	SR	TX	104 E. Park		Wayhville, NY
Cremby, Leeman F. Jr.	FR	AJ	Tucker	Te-47191	Wayhville, NY
*Orrell, Robert J.	JR	ATP	34B, Vetville		Wayhville, NY
Orth, Edward J. Jr.	FR	FE	3418 Churchill	Te-47162	Wayhville, NY
Osborne, Harry A. Jr.	JR	NE	308 Horne	Te-27050	Wayhville, NY
*Ost, John Wm.					Wayhville, NY
Oteifa, Hassan Ahmed N.	FR	TXM		Te-44169	Wayhville, NY

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Ott, Richard	JR	EE	Becton		Guilford College, NC
Ouda, Richard Scott	SO	AI	Route 1, Cary	Te-20354	318 N. Thomas St., Arlington, Va.
Oughton, William Paul	SO	HO	Brooks		
Ours, Harold Eugene	SR	CE		El-203404	Box 355, Route 1, Apex, NC
Overby, James Allen	FR	IRR	Tucker	Te-29388	Box 186, Norlina, NC
Overcash, James Wayne	FR	AGE	Tucker	Te-20367	Route 3, Salisbury, NC
Overcash, James Clyde	FR	IA	3306 Hillsboro		3306 Hillsboro, Raleigh, NC
Overton, Carroll T.	FR	EE	Syme	Te-29150	627 Lake Dr., Salisbury, NC
Overton, Frank Hudson	JR	ME	1720 Hillsboro	Te-40451	425 W. Fisher, Salisbury, NC
Overton, Robert Edward	SR	AED	Farmhouse		Route 2, Apex, N. C
Owen, Austin, A.	SO	CE	Bagwell		Box 224, Elizabethtown, NC
Owen, Darl Rex	SO	ME	Bagwell	Te-29412	Route 1, Canton, NC
Owen, Gordon Norman	FR	CE	Tucker	Te-29186	Box 272 Logo Colony, Aruba, N. W. I.
Owen, Melvin T.	FR	CE	2004 Hillsboro	Te-21881	Waynesville, NC
Owenby, James H.	SR	DM	214 Woodburn Rd	Te-26159	Route 2, Brysoncity, NC
Owens, Carl Elwyn, Jr.	JR	AGE	2212 Hope St.		Route 1, Fletcher, NC
Owens, David Linwood	SR	TX	Berry	Te-29363	1409 Anderson St., Wilson, NC
*Owens, Edward D.	JR	CE	125 Hawthorn	Te-21183	2020 Lomond St., Winston-Salem, NC
Owens, Edwin Gip	SO	FOR	Owens		Route 2, Cleveland, NC
Owens, Milo Ervin	JR	ME	31-G Vetville	Te-47964	Miami, Mo.
Owens, William Maurice	FR	CHE	Becton	Te-20265	2839 Royston Rd., Charlotte, NC
*Owley, James L.	SO	AG	1101 Canterbury Rd.	Te-29486	Route 2, Elizabeth City, NC
*Pace, Doran R.	JR	CEC	1508 Frank St.	Te-29110	313 W Liberty St., Sumter, NC
Pace, Edgar Alan	SO	HAC	1284 Horne St.	Te-47470	Box 739, Hendersonville, NC
Pace, Finley, Jr.	SR	HAC	184 Horne St.	Te-47470	Hendersonville, NC
Pace, John James, Jr.	FR	AG			Pace St., Franklin, Va.
*Pace, William Thomas	SR	IPS	2805 Beford Ave.	Te-22706	206 4th Ave., Franklin, Va.
*Pace, Virgeon A., Jr.	SO	EE	1207 Courtland Dr.		Spring Hope, NC
*Packer, Louis Leonard	SO	NE		Te-48909	2550 Glenwood Ave., Raleigh, NC
*Padgett, John Ray	SO	CE	6214 Brooks Ave.		
Padgett, Kenneth Ray	SO	ACP	Becton	Te-29261	Box 733, Jacksonville, NC
Padunchewit, Ittipon	SR	EE	Gold	Te-20263	Thanburi, Thailand
Page, Allen, Royle	FR	FOR	Becton	Te-29256	Route 1, Elm City, NC
Page, Earl Mason	SR	NE	Gold		1020 S Quebec St., Arlington, Va.
Page, Harry Durwood		AED	Owen		Wallace, NC
Page, Harry Lee	JR	PO	2718 Clark Ave.	Te-34545	Route 1, Burn St., Summit, NC
Page, Morris Norman	FR	EE		Te-23888	1208 Kent Rd., Raleigh, NC
Page, William W.	FR	ME	Alexander	Te-47946	Box 306, Henderson, NC
Painter, George Robert	JR	MEA	Bagwell		1304 Dixie Trail, Raleigh, NC
Palandran, Francis J.	SO	TX	Turlington		111 Cranberry St., Plymouth, NC
*Pang, Ernest William	SO	IRR	313 W. Park Dr.	Te-21636	1320 W 5th St., Wilmington, Del.
Pappas, Ernest G.	SO	CE	Turlington		313 W. Park Dr., Raleigh, NC
*Parham, Jennings W.	SO	ME	1318 Mordecai	Te-30196	101 E. Vance, Wilson, NC
Paris, Neal L.	JR	ARC	915 Gardner	Te-28261	High Point, NC
Paris, Wm. M.	FR	EE	Bagwell	Te-29412	915 Gardner, Raleigh, NC
Park, Arthur G.	SR	FMM	3414 Hillsboro	Te-34808	326 W. Marshall, Graham, NC
Park, James Kay	JR	ME	Becton	Te-29261	508 Park, Oxford, NC
Park, Richard B.	JO	NE		Te-23589	RT#4, Box 444, Salisbury, NC
Parker, Carl D.	JR	SE	Owen	Te-29142	3120 Darien Dr., Raleigh, NC
*Parker, Carl E.	JR	FE		Te-40469	Cordova, NC
Parker, Charles L.	JR	AGY			1006 Gorman, Raleigh, NC
*Parker, Effie L.		ZO			Varina, NC
Parker, Gerald H.	JR	NE	2512 Clark	Te-24843	435 Cutler, Raleigh, NC
*Parker, Grady L.	JR	SE		Te-35209	RT#1, Box 75, Salisbury, NC
*Parker, James H.	JR	NE	118 Ricks		2712 Redford, Raleigh, NC
Parker, Jefferson L.	JR	IA	Turlington		2164 Benson, Garner, NC
Parker, Jerry E.	SO	CHE	Owen	Te-29437	Box 65, Four Oaks, NC
Parker, Joel Ray	SR	FOR	3414 Hillsboro	Te-34808	538 E. Polo, Winston-Salem, NC
Parker, John B.	SR	CE	2514 Clark	Te-34522	2820 Virginia, Charlotte, NC
Parker, John W.	JO	AG	Bagwell		410 W. Main, Elizabeth City, NC
Parker, Kenneth Wm.	SO	EE	Alexander		Lasker, NC
*Parker, Lloyd C.	JR	FE	3005 Leonard	Te-48823	Winston-Salem, NC
Parker, Ralph J.	JR	HAC	Phi Kappa Tau House	Te-27050	3005 Leonard, Raleigh, NC
Parker, Robert D.	SR	CE	Watauga		Williamston, NC
*Parker, Stacey D.	FR	EE			324 Washington, Roanoke Rapids, NC
Parker, Wade Thomas Jr.	SR	ME	2209 1/2 Hope	Te-43244	119 Ashe, Raleigh, NC
*Parker, Wallace O'Neil	SO	AED	119 Brooks		717 Hay St., Fayetteville, NC
*Parker, Warren Trower	SO	FOR	113 Ashe	Te-47620	Hubert NC
Parks, Bererly S.	JR	E	Owen	Te-29464	113 Ashe, Raleigh, NC
*Parks, Richard D.	FR	ME	Berry	Te-29350	312 Gardiner, Asheboro, NC
Parlier, James E.	JR	FMM	7 Enterprise		Archdair, NC
*Parodi, Bob	JR	IRR	1102 Southerlund	Te-46506	RT#1, Lenoir, NC
*Parson, Troy F.	JR	AED	201 Grand	Te-26249	1102 Southerlund, Raleigh, NC
*Parrish, George C.	FR	CE	Syme		RT#5, Box 224, Clinton, NC
*Parrish, George S.	JO	CE		Te-48098	RT#3, Louisburg, NC
*Parrish, Karl Max	JO	ME	Owen	Te-29410	2806 Barmettler, Raleigh, NC
*Parrott, George R.	JR	CE	3107 Clark	Te-38056	722 Carolina, Gastonia, NC
Parsons, James C.	FR	IA	Alexander	Te-29257	3107 Clark, Raleigh, NC
Parsons, Niwa Wilcox					Havelock, NC
Parsons, Wade H.	FR	CE	Tucker	Te-29186	Box 475, Wendell, NC
Paschall, Fred Wm. Jr.	JR	IA	120 Woodburn		N. Wilkesboro, NC
Pasour, Ernest C. Jr.	GR	AED	Gold		1905 Madison, Greensboro, NC
*Patel, G.J.	GR	AGY	Watauga		RT#1, Bessemer City, NC
*Pati, Nityananda	GR	AT	Gold		Bombay, India
Patrick, Flotilla Ann	FR	ARC	1718 Hillsboro	Te-31587	West-Bengal, India
Patterson, Arza D.	JR	ME	Tucker	Te-29388	908 S. Main, Laurinburg, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Patterson, Charles A.	JR	TX	3414 Hillsboro	Te-3414	Hickory, NC
Patterson, Daniel A.	JR	AC	Becton		West End, NC
Patterson, Emmett S.	SO	MAG	2718 Clark Ave.	Te-26451	Route 1, China Grove, NC
Patterson, Glenn Wayne	FR	AC	Tucker	Te-29367	Route 1, China Grove, NC
Patterson, Larry H.	SO	AGE	2718 Clark Ave.,	Te-26451	Route 1, China Grove, NC
Patterson, Leon F.	FR	ARC	Tucker		Robin Hood Circle., Winston-Salem, NC
Patterson, Robert Wayne	FR	NE	Tucker	Te-29323	Box 103, Drakes Branch, Va.
Patton, Peter W.	FR	CE	Berry		200 College St., Morganton, NC
Patumasootla, Athorn	SR	NE			Bangkok, Thailand
Paul, Ralph Eddie	FW	AED	Owen		Oriental, NC
Pavate, Mohan V.	SR	ST	Gold		Dharwar, India
Pavia, Rafael Alberto					
Payne, Dwight Lee	SR	ME	2512 Clark Ave.	Te-24843	Route 2, High Point, NC
Payne, James Dwight	FR	NE	Bagwell	Te-49151	Route 1, Bryson City, NC
Payne, Reuben E.	SR	ME	Berry		Box 253, Mantoo, NC
*Payne, Willie Leonard	FR	AC	Bagwell		Route 4, Asheville, NC
*Peabody, William F.	SR	CE		Te-47470	302 N. Goldsboro St., Wilson, NC
*Peacock, George S.	SO	EE	2402 Everett Ave.	Te-41820	Route 5, Goldsboro, NC
*Pearce, Ira W.	SR	CE	25-C Verville	Te-29290	419 7th St., M. E., Hickory, NC
Pearce, Robert G.	FR	ME	Alexander	Te-49746	224 Virginia Ave., Henderson, NC
Pearman, Thomas H.	FR	CHE	Owen	Te-29252	Route 1, Summerfield, NC
Pearsall, Jere	SO	IE	Becton	Te-29261	Box 282, Holly Springs, NC
Pearson, Frederick, J.	SO	ME	222 Hillcrest Rd.	Te-29339	Route 1, Salvo, NC
*Pearson, James R.	JR	EE	Route 1, Cary	Te-25459	Box 315, Ader, NC
*Pearson, Richard F.	JR	ACC	308 Horne St.	Te-27050	111 E. Faison St., Clinton, NC
*Pearson, Robert Clarence	SR	EE	2226 Bernard St.,	Te-47695	2226 Bernard St., Raleigh, NC
*Pearson, Ronald F.	SO	CE	Pine Lake Trailer Pk.	Te-29251	284 Beaverdam Rd., Asheville, NC
*Peatross, Jack Kreth	JR	NE	400 Pershing Rd.	Te-25188	400 Pershing Rd., Raleigh, NC
*Peatross, Thomas E.	JR	IE	628 Woodburn Rd.	Te-31041	628 Woodburn Rd., Raleigh, NC
*Peden, James M., Jr.	JR	CE	907 Williamson Dr.	Te-22497	907 Williamson Dr., Raleigh, NC
Peed, John Cullom	FR	CE	Becton	Te-29256	Church St., Creedmoor, NC
*Peed, Shelton Ray	SR	DN	206 Forest Rd.	Te-40280	206 Forest Rd., Raleigh, NC
*Peedin, Parker C.	SR	MED	16 N. Boylan Ave.		Smithfield, NC
Peeler, Charles V.	SO	EPY	Stadium	Te-49803	Route 5, Goldsboro, NC
*Peeler, James D.	SR	AI	14 Maiden Lane		Route 1, Lawndale, NC
Peeler, John Elmo	JR	HRT	Welch		Roxobel, NC
Peelo, Julian T.	FR	ME	Owen	Te-29464	Hwy., 24, Jacksonsville, NC
Pegram, Michael A.	FR	E	Tucker	Te-49739	Bauersfeld St., Hamlet, NC
Pemberton, Joseph	SO	EE	Tucker	Te-29388	607 S. Audubon St., Goldsboro, NC
*Penn, Peter T.	SR	PPH	Williams		Bristol, England
Pennell, Bradley M.	SO	FMH	Berry		100 Cretnere Dr., Lenoir, NC
Pennell, Roland J.	FR	E		Te-29186	648 Highland St., Warwick, Va.
*Penny, Augustine C.					Route 2, Clayton, NC
Penney, Carl M.	SO	NE	Hawthorne	Te-47325	Shoeland St., Warwick, Va.
*Penny, James L.					Ridge Rd, Raleigh, NC
*Perdue, RayVon	JR	FMH	2239 Noble Rd.	Te-35024	Route 2, Kannapolis, NC
Perkinson, John Linwood	JR	WCM	Tucker	Te-29388	Box 14, Norlina, NC
Perlmotter, Lawrence S.	FR	ME			New York, N. Y.
Perpb, Michel					Paris, France
*Perrell, William R.	SR	AED	Watauga		Route 1, Woodleaf, NC
*Perry, Bobby A.	FR	TX	1508 Frank St.		518 E Franklin St., Raleigh, NC
*Perry, Dow Vick	FR	TX	518 E Franklin St.	Te-40451	518 E Franklin St., Raleigh, NC
Perry, Glenwood H.	JR	ME	Welch		Route 4, Zebulon, NC
*Perry, Joel Von	SR	EE		Te-47631	509 Grove Ave., Raleigh, NC
*Perry, John B.	SR	NE	3004 Ruffin St.	Te-28444	1894 Arlington Rd., S.W., Roanoke, Va.
*Perry, John U.	SR	FCM	Watauga		Box 35, Louisburg, NC
*Perry, Milton A.	JR	LA	2003 Country Club Court		335 Dabney Dr., Henderson, NC
Perry, Winston C.	FR	ARC	Owen		Route 1, Scotland Neck, NC
Persoghin, Aprian L.	FR		Becton	Te-29256	Watha, NC
*Peterson, Brian S.	FR	EE	303 Park Ave.		Route 1, Delco, NC
Peterson, James R.			205 Grand Ave.		Route 2, Clinton, NC
Peterson, Jesse J.	JR	ARC	Owen	Te-29352	Route 1, Wilmington, NC
Peterson, John M.	SR	ARC	1121 Harvey St.	Te-11651	1121 Harvey St., Raleigh, NC
Peterson, Lennart R.	JR	EE		Te-24843	1518 S Hawthorne Rd., Winston-Salem
Peterson, Paul D.	FR	NE	Owen	Te-29437	Leaskville, NC
*Pethel, Frank C.	SR	EE	3300 Dunn Ave.	Te-22673	3303 Dunn Ave., Raleigh, NC
*Pettie, William C.	JR	RS			Route 1, Monticello, NC
Perry, William H.	SO	ME	Tucker		Route 1, Graham, NC
Pensey, William B.	SO	WT	305 Postle		Virginia
Pepe, Robert A.	SO	IA	Bagwell	Te-29131	142 Sumner Ave., Philadelphia, Pa.
Perkins, James V., Jr.	SO	NE	Enterprise St.	Te-49445	2413 E 5th St., Greenville, NC
Perry, JuneG.	JR	AGE	Bagwell	Te-29412	Route 3, Zebulon, NC
Pettigrew, Thomas			2726 Cambridge Rd.		Asheville, NC
Phelps, James C.	SO	EE	Turlington		Route 6, Winston-Salem, NC
Phetso, Marion Richman	JR	HAC	Becton		Box 112, Lillington, NC
*Phelps, David Sutton, Jr.	SR	ARC	31-H Verville	Te-49151	Gatesville, NC
Phelps, Robert B.	SR	WT	2405 Clark Ave.	Te-36543	405 Belmont Ave., Windsor, NC
*Phifer, Addison Keith	JR	CHE	21-H Verville		Route 1, Peachland, NC
Phifer, William Joseph,	JR	ME	Bagwell		1837 Pegram St., Charlotte, NC
Phillips, Alan C.	JR	EE	Welch		Route 3, Mocksville, NC
*Phillips, Bobby E.	SR	NE	2610 Van Dyke Ave.	Te-23223	Route 3, Bakersville, NC
*Phillips, Clay R.	JR	AMH	124 N. Bowlin Ave.		144 N. Bowlin Ave., Raleigh, NC
Phillips, George T.	SO	CE	Turlington		Route 1, Scotland Neck, NC
Phillips, Harlon D.	FR	MEA	Owen	Te-29421	1000 Adams Ave., Kannapolis, NC
Phillips, Harold E.	JR	IRR	Owen	Te-29410	Route 1, Selma, NC
*Phillips, Hedrick M.			201 B Dixie Trail		
Phillips, James A.	FR	AT	Bagwell	Te-49151	Box 35, Spruce Pine, NC
Phillips, Max R.	SR	CE	Becton		Route 5, Franklin, NC
Phillips, Milton L.	SO	CE	Turlington	Te-49299	1410 W Blvd., Charlotte, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Phillips, Rex A.	JR	GEE	Stadium		Route 2, Grifton, NC
Phillips, Robert K.	JR	EE	2415 Fairview Rd.		Lillington, NC
Phillips, Robert L.	SO	ARC	Tucker	Te-49739	319 Greenwood Ave., High Point, NC
*Phillips, Travis D.	SR	AGC			State College, Miss.
Phillips, William Henry	FR	CHE	Owen	Te-29437	503 Gardner St., Franklin, Va.
Pickard, Thomas L.	SO	ME	Tucker		1305 Asheboro St., Greensboro, NC
Pickenheim, Paul J.	SR	FCM	Tucker		35 Lafayette St., Tamaqua, Pa.
Pickett, Alfred T.	FR	CE	Tucker		Route 4, Mebane, NC
*Pierce, David Joe	SR	MEA	2716 Bedford Ave.	Te-20043	Route 4, Reidsville, NC
Pierce, Garland Frank	SO	MEA	Syme	Te-29222	Southern Pines, NC
Pierce, Ronald D.	FR	ME	Owen	Te-29464	524 Canter St., Highpoint, NC
*Pierce, Mrs. Shirley					2716 Bedford Ave., Raleigh, NC
Pierczynski, Edmond J.	SR	NE	Bazwell		1221 E 35th St., Charlotte, NC
Pielens, Frank G.	SR	TX	Turlington		Germany
Pierpoint, Wilson D.					1906 Alexander Rd., Raleigh, NC
Pigg, John O.			Tucker		Wingale, NC
Pilch, Robert M.	FR	AG	Tucker	Te-29367	Alward Ave., Basking Ridge, N. J.
Pinlington, Theo C.	JR	EE	Welch		1012 Park Ave., Durham, NC
*Pires-Cano, Francisco		DM	Bagwell	Te-49151	Nicaragua
Pinkerton, Ronald James	FR	FOR	Tucker	Te-49739	Route 3, Asheville, NC
Pinner, Allen O.	JR	CHE	Fourth		Route 1, Candler, NC
Pittard, David H.	SR	MEA		Te-21813	Route 4, Raleigh, NC
Pinto, Aldo A.			Station		Sau Paulo, Brazil
Pinto, Antonia	SO	CE	Station		Sau Paulo, Brazil
Pittand, Robert K.	SR	AED	Watauga		Route 6, Mooresville, NC
Pittman, Arnold S.	FR	E	Owen		Route 2, Selma, NC
Pittman, Barney W.	SR	PSC	Bagwell		Hillsboro, NC
Pittman, Robert E.	SR	CE	6 Enteroprise St.	Te-24788	1406 Bond St., Kinston, NC
Pittmann, Rodney Lee	FR	ME	Bagwell	Te-29412	1221 Sycamore St., Rocky Mount, NC
Pitts, Kirby Allen	JR	AGY	Tucker	Te-29388	Route 6, Winston-Salem, NC
Piver, James Judson	SO	CHE	Syme	Te-29288	Hampstead, NC
Pivin, John Oscar	FR	CE	Bagwell	Te-49151	680 Hope St., Bristol, R. I.
Plaxen, Bernard W.	SO	TX	Becton		48 Lott Ave., Brooklyn, N. Y.
Pledge, Mary A.	SR	SED	2610 Clark Ave.	Te-21432	3510 Stuart Ave., Richmond, Va.
Plemmons, Robert Laxton	FR	ME			111 E Six Forks Rd., Raleigh, NC
Plemmons, Tommy R.	FR	EE	Tucker	Te-29367	96 Olney Rd., Asheville, NC
Pless, Robert E.	FR	ARC	Bagwell	Te-29412	137 Pisgah Dr., Canton, NC
*Ploch, Jordan C.			907 Johnson S.		Pilot Mountain, NC
*Plowman, Joseph D.	FR	FCM	106 Horne St.	Te-21887	106 Horne St., Raleigh, NC
Plyler, Lynn Wells	AI				Route 1, Waxhaw, NC
Flyler, Phillip H.	FR	AG	806 Brooklyn St.	Te-25652	Route 5, Winston-Salem, NC
Podulka, Ron	SO	IA	Becton	Te-29372	1201 Crest Ave., Charleroi, Pa.
Poo, Richard V.	FR	NE	Syme	Te-29222	W. 3rd St., Siler City, NC
*Poindexter, Everett J.	SO	AED	8-C Vetville	Te-42132	309 Morrison Ave., Tarboro, NC
Poindexter, William B.	FR	EE	Alexander		Route 2, Eart Bend, NC
Poindexter, Vernon C.	FR	EE	Alexander	Te-49746	Box 177, East, Bend, NC
Poinsett, Ronald W. Jr.	FR	FE	Bagwell	Te-49151	RFD#1, Trenton, NJ
Poley, Paul W.	SO	ME	Owen		2018 Brandon, Charlotte, NC
*Polk, Harold E.	JR	CEC	1029 W. South	Te-40632	3815 Plaza, Charlotte, NC
Pollock, Donald Page	SO	CE		Te-49583	1114 Parker, Raleigh, NC
Pond, Larry E.		EE	Syme		Davis, NC
Pond, Nathan J. Jr.	JR	AGC	Turlington		15 Fairfield, Montclair, NJ
Ponder, Reginald W.	SO	RCS		Te-26987	805 Brooks, Raleigh, NC
Ponder, Patricia E.	FR	ST		Te-26987	805 Brooks, Raleigh, NC
Pons, Thomas J.	FR	CHE	Owen		Valdese, NC
Poole, Bobby J.	FR	IA	621 W. Aycock		RT#3, Statesville, NC
*Poole, Calvin P. Jr.	SO	AG	601 Alkey Parkway		13 Arrington, Fayetteville, NC
Poole, David A.	JR	TX	Becton	Te-29261	RT#2, Rockwood, Tenn.
*Poole, Ernest G.	JK	MEA	Fuquay Springs		1232 Enderly, E. Charlotte, NC
Poole, Ernest T.	SR	ZO	407 Chamberlain	Te-23665	407 Chamberlain, Raleigh, NC
Poole, Lonnie C. Jr.	SO	CE	Box 3791 College	Te-29372	RT#2, Raleigh, NC
Poole, Gordon J.	FR	MEA			1506 Scales, Raleigh, NC
Pool, Jos. Wilson Jr.	FR	EE	Bagwell	Te-49151	606 Baxter, Elizabeth City, NC
Poole, Marvin H.	JR	CE	Syme		100 Howard, Thomasville, NC
*Pope, Max L.	FR	CE			1110 Glenwood, Raleigh, NC
*Pope, Zeb Vance	JR	EE	D-5, Shelton Apts.		RT#1, Statesville, NC
Poosier, Arthur K. Jr.	SR	ME	2504 Vanderbilt	Te-30671	437 S. Garden, Marion, NC
Poovey, Robert L.	SO	IE	Tucker	Te-29312	35-18NW, Hickory, NC
Pope, John H.	FR	DS	102 Logan Court	Te-23089	1105 9th, Durham, NC
*Pope, James H.	SR	IEE	210 Cox		210 Cox, Raleigh, NC
Pope, Oscar E.	SR	ARC	2512 Clark		2309 E. 5th, Charlotte, NC
Pope, Ray E.	FR	ME	Owen	Te-29464	O.O. Box 483, Hickory, NC
Pope, Robert H. Jr.	FR	TX	Turlington	Te-29192	Cedar Grove, NC
*Pope, Vernon R.			4-E, Vetville		4-E, Vetville, Raleigh, NC
*Porter, Benjamin L.					711 D., Daniels, Raleigh, NC
*Porter, Lynn Keith	GR		2811 1/2 O'Berry		66 Bryner, Holden, Utah
Porter, Paul H.	GR	MA	711D, Daniel	Te-45035	Kelly, NC
Porter, Wm. B.	SO	TX	2226 Hillsboro	Te-31140	Main St., Washington, NC
*Porter, Wm. Donnie	GR	ME	25A, Vetville	Te-29290	Fayetteville, NC
Porth, Wm. Robert	FR	CE	Tucker	Te-49739	Winston-Salem, NC
Poston, Talmadge M.	SO	ME	Berry		901 S. 3rd, Smithfield, NC
Poteat, Edward Lee	FR		Tucker		
*Poteat, Jimmy L.	JR	TX	2201 1/2 St. Mary	Te-47492	RT#1, Yanceyville, NC
Poteat, Wm. Thomas	SO	EE	Turlington	Te-49279	309 Church, Spindale, NC
Potter, Norwood	FR	AI	Owen		RT#5, Clinton, NC
Potts, Alvin L.	SR	TX		Te-29410	302 S. John, Goldsboro, NC
Potter, Jackie H.	SR	CE	104 4th. St.	Te-29159	Gordon St., Kinston, NC
Poulson, Melvin B.	SO	CE	Tucker		RFD#1, Engelhard, NC
*Powell, James H.	FR	CE	707 Wilkerson	Te-52733	707 Wilkerson, Raleigh, NC
Powell, Jos. Adrian	FR	AG	Syme	Te-29421	RT#1, Spring Hope, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Powell, Lawrence Billy	JR	IA	707 1/2 W. Lane	Te-49883	Draden, NC
*Powell, Leon M.	JR	E	33A, Vetville		Box 161, Erwin, NC
*Powell, Luther C. 3rd.	SR	CHW	Welch	Te-29119	RT#5, Box 387, Greenville, NC
*Powell, Nathaniel T.	JR	PP	UK45, Vetville	Te-21161	RTD, Halifax, NC
Powell, Robert E.	GR	CE		Em-25911	Garner, NC
*Powell, Robert H.	SR	EE	3102 Hillsboro	Te-26520	505 Waldo, Roanoke-Rapids, NC
*Powell, Wm. Morton	GR	FF	UX 38, Vetville	Te-33851	RT#1, Box 295, Halifax, NC
Prarie, Richard R.	GR	EST	203 Groveland	Te-26861	Pine City, Minn.
Pratt, Peter T.	SO	ARC	205 Fourth	Te-29151	Argentina
Precythe, Henry W.	FR	POR			Faison, NC
Preddy, Fleming M.	FR	TX	920 Henderson	Te-45990	920 Henderson, Raleigh, NC
Presley, David M.	FR	EE	Tucker	Te-29186	Asheville, NC
Pendergast, Jos. H.	FR	WCM			110 Hardee, Durham, NC
Pesson, Gerald V.	SO	HAC	Tucker	Te-29388	4436 Park, Charlotte, NC
*Presson, Kendrick B.	JUN	TX			1415 Beaver Dam Rd., Raleigh, NC
*Preston, James A.	JUN	ZO	26B, Vetville	Te-48196	700 W. Church, Elisabeth City, NC
Preston, Annie K.	JR	E	2302 Hillsboro	Te-22741	RT#3, Box 912, Lenoir, NC
Rick, Carl Vann	JR	E	Bagwell		RT#2, Castalia, NC
*Price, Carl D.	GR	AGY	UK4, Vetville	Te-21501	RFD#1, Selma, NC
Price, Clay C.	SO	AG	Owen		RT#2, Box 99, Taylorsville, NC
Price, Cullen B. Jr.	FR	ARC	Owen		RT#3, Mt. Olive, NC
Prince, Edward H. Jr.	GR	AMA		Te-40476	Box 5011, Raleigh, NC
Price, Franklin H.	FR	CE	Syme		504 Trade, Tarboro, NC
Price, John Lee	JR	PO	Turlington		RT#7, Monroe, NC
Price, Otis C.	SR	PO	Tucker		Clarendon, NC
Price, Robert M.	JR	TX		Te-31252	7 W. West, Raleigh, NC
Price, Ronald N.	JR	ME	Owen		Elisabeth City, NC
*Price, Wm. L.	JR	FM	1117 1/2 Dale		507 S. Pineview, Goldsboro, NC
Prim, James W. 3rd.	JR	MEA	Berry	Te-29150	455 E. N.Y., Southern Pines, NC
Prince, Bill A.	FR	EE	Bagwell	Te-29131	Durham, NC
Prince, Wallace Lee	JR	RS	Bagwell		RFD#2, Cairo, Ga.
Pritchard, Dillard McK.	FR	WR	Watauga	Te-29312	RT#4, Box 570, Lenoir, NC
*Pritchard, Jack C.	SO	BO	21B, Vetville		710 E. Raleigh, Siler City, NC
*Pritchard, Eugene J.	SO	BO	101 B, Chamberlain		P.O. Box 184, Elk Park, NC
Pritchard, Gerald Ian	GR	AI	Gold	Te-29263	Alcove, P.O. Quebec
Proctor, David Owen	SR	AC	Becton		RT#3, Walstonburg, NC
Proctor, Robert P.	FR	AG	Becton		RFD#3, Walstonburg, NC
*Proescher, Andrew J 3rd.	SO	ME	Cary, NC	Ho-93051	Cary, NC
Propst, Harry Lee	FR	ME	Tucker	Te-29381	RT#3, Box 19, China Grove, NC
Propst, Paul L.	SO	NE	Syme	Te-29288	Southern Pines, NC
Provo, Donald Lee	FR	HAC	Tucker		1203 Sauls, Wilson, NC
Pruette, Dean M.	JR	NE	Owen		320 Montileu, High Point, NC
Pruitt, Franklin R.	JR	EE	Owen	Te-49836	RT#2, Ruffin, NC
Pruitt, Howard L. Jr.	FR	CE	Watauga		606 Spring, Mt. Airy, NC
Pruitt, Roger Lee	GR	TC	100 Vetville	Te-47572	521 N. Belmont, Odessa Texas
Prunna, Phillip R.	SR	EE	Berry	Te-29363	1812 W. Davis, Burlington, NC
Prusan, Max	SO	IRR			1208 Filmore, Raleigh, NC
Pryor, James W.	SO	EE	Welch		212 N. Spring, Winston-Salem, NC
*Pryor, Jerry	JR	EE	Berry	Te-29263	509 Elm, Mt. Olive, NC
*Pryor, Thomas B.	SR	AED	1508 Frank	Te-29110	Hendersonville, NC
Pucillo, Louis E.	SO	IRR	Bagwell		Philadelphia, Pa.
Puett, Bobby W.	SO	ME	Owen	Te-29437	RT#1, Box 410, Morganton, NC
Pulliam, James W. Jr.	JR	WCM	1020 Boylan Dr.	Te-29411	200 S. Main, Henderson, NC
Punch, James D.	SO	DM	Box 4412 State		RT#2, Conover, NC
*Purser, James A. Jr.	SR	EE	Tucker	Te-29388	RT#9, Box 366, Charlotte, NC
Purvis, Albert C.	SO	AED	Owen		RT#1, Winnabow, NC
*Putnam, Billy H.	SO	EE	714 Chamberlain	Te-45656	714 Chamberlain, Raleigh, NC
*Pyatt, Everett Lee	SR	TX	415 Guilford	Te-38134	58 Indiana, Asheville, NC
Pyatt, John Kay	TX		Box 4249 State		RT#1, Nebo, NC
Auery, Robert George	JR	IA			Cornell Dr., Sanford, NC
Quessenberry, Frank P.	FR	AC		Te-38489	Route 1, Raleigh, NC
Quick, Lee T.	JR	EE	Alexander	Te-29349	105 Gray St., Wilson, NC
Quickel, Jacob C.	SO	TX	Tucker		1635 Arnold Dr., Charlotte, NC
Quillen, Laurin E.	JR	CE	Alexander	Te-29349	Route 3, Mathews, NC
Quinn, D. C.	FR	NE	Tucker	Te-29367	Beulaville, NC
Quinn, Don O.	JR	ME	Bagwell	Te-49151	Box 513A, Asheville, NC
Quinn, Gareth	FR	ME	Tucker		Route 1, Pink Hill, NC
Quinn, Stacy N.	SR	ATY	Syme		Pink Hill, NC
Rabb, Nelson E.	FR	ME	Owen		Gaston, NC
Rabon, Wilber E.	SR	AED	Bagwell		Winnabow, NC
Rackley, John W.	SO	MEA	Tucker	Te-29348	1723 Brandon, Petersburg, Va.
Rackley, Robert Louis	JR	DM	Welch	Te-29119	237 Bear Creek Rd., Asheville, NC
Rackley, Victor D.	JR	CE	Owen	Te-29464	Sharnesburg, NC
*Radford, John Marion	JR	AED	34-F Vetville	Te-24305	
Radford, William B.	FR	ME			2612 York Rd., Raleigh, NC
*Ragland, Gilbert G.	SR	OTG			429 Linden Ave., Oxford, NC
Ragland, Jack H.	SO	CH	2114 Hillsboro		Buies Creek, NC
Ragland, John L.	SR	ATY	1001 Nichols DR.		Box 64, Beaver Dam, Ky.
Rahman, Khalil-ur	SR	TX	Owen		Pakistan
*Ramzan, Muhammad	SR	TX	2402 Hillsboro	Te-40250	Pakistan
*Raiford, Claude E.	SR	DM		Te-30505	984 Peace Terrace, Raleigh, NC
Raines, Warren Lee	JR	PE	Alexander		Pittsburg, Pa.
Raines, William Albert	JR	ME	Syme	Te-29150	415 Castle St., Wilmington, NC
Ram, Perets	SR	AGC	116 Woodburn Rd.	Te-25015	Jerusalem, Israel
Ramer, Charles K.	JUN	CE	Buffalo Trailer Pk.	Te-24611	Buies Creek, NC

NAME	YR	SCHOOL	CAMPUS	ADDRESS	TELEPHONE	HOME ADDRESS
Ramey, Leonard Carl						Ant. E, 400 Chamberlain, Raleigh, NC
Ramey, Richard Lee	SR	ME	Becton			101 Essex St., Danville, Va.
Ramsey, Edgar Lee, Jr.	SO	EE	Owen	Te-29410		1008 Fairfield Dr., Gastonia, NC
Rand, Bobby Joe	FR	CE	Owen			2369 Westover Dr., Winston-Salem, NC
Randall, John V., Jr.	SO	TX	Becton	Te-29334		N. Main St., Salisbury, NC
*Randolph, Hal						407 Horne St., Raleigh, NC.
Randolph, Robert N.	SO	ME	1806 Hillsboro	Te-22565		2648 Club Park Rd., Winston-Salem, NC
Ranev, Mirik	FR	EE	Tucker			Route 2, Jacksonville, NC
Rankin, Ben F.	SR	TX	309 Hawkins Ave.			Box 37, Sanford, NC
Rankin, James E.	FR	CH	2812 Western Blvd.			
Rankin, Robert	SR	CEC	Boylan Apts.	Te-41975		602 S. York St., Gastonia, NC
Rankin, Robert W.	Jr	ARC	Syme	Te-29222		Washington 2, D. C.
Rankin, Wiley T.	SR	TX	303 B Boylan Apts.	Te-41875		1305 York Rd., Gastonia, NC
Rankin, William N.	FR	ME	Becton			2240 Rosewood Ave., Winston-Salem, NC
Raper, James L.	SO	MEA	Syme	Te-99288		Mills Home, Thomasville, NC
Rasely, Richard Warren	FR	AGY	Tucker	Te-29186		2307 S. June St., Arlington, Va.
Rascoe, Lewis T.	SR	AGY	Bagwell	Te-29412		402 King St., Windsor, NC
Rash, Henry F.	SR	AED				
Rasor, Jerry Lee	SR	EE	Burton	Te-41284		508 Burton St., Raleigh, NC
Rateliff, Richard	FR	EE	Tucker	Te-29323		986 Kearns, Winston-Salem, NC
Ratliff, Morris	SR	EE	21 Enterorise St.			Hallsboro, NC
Ratcliffe, Joseph S.	FR	HRT	1710 Hillsboro			2128 Sherwood Ave., Charlotte, NC
Ratliff, Thomas Davis	SR	EE	100 Horne St.			100 Horne St., Raleigh, NC
*Rawers, James W.						1531 Dellwood, Raleigh, NC
Ray, Clarence E.	JR	TX	Bagwell	Te-40485		Box 246, Haw River, NC
Ray, Robert J.	SR	WGM	1508 Frank St.	Te-22241		Box 325, Mars Hill, NC
Ray, Robert M.	SR	AGC	Gold			3 Grace Ave., Asheville, NC
*Ray, Waldo N., Jr.	FR	CE	Barwell Ave.			35 Barwell Ave., Raleigh, NC.
Ray, Robert H.	FR	FOR	Barwell	Te-29412		1068 Old Salisbury Rd., Winston-Salem
Ray, Harold, J.						Star Route, Burnsville, NC
Rawls, Elton R.	FR	MEA	Tucker	Te-29387		309 Ray St., Williamston, NC
Rawicz, Fred W.	SR	TC	116 St. Mary's	Te-49254		Rego Park, Long Island, New York, NY
Hayfield, Lanny Reese	SO	NE	Tucker			810 W. Rankin St., Gastonia, NC
Read, Arch P.	SO	CHE	Syme	Te-29288		Wood, NC
Read, Joseph P.	SO	IRR				General Delivery, Cary, NC
Reading, Clark Delano	SO	CE	Tucker	Te-29388		Box 603, Cornelius, NC
Rearick, William F.	SO	EE	Alexander	Te-29349		311 Spring Ave., Dubois, Pa.
Reasous, William Edgar	SO	EE	Owen			Route 1, Stantonburg, NC
Reaves, Charlie E.	JR	EE	Tucker	Te-29367		2630 Philio St., Winston-Salem, NC
Reavis, James D.	SO	E	1910 Glenwood Ave.	Te-47601		2367 Patterson Ave., Winston-Salem
*Reavis, William Joseph	SR	AED	35-C Verville	Te-35224		Angier, NC
*Redden, Eugene R.	JR	NE	2802 Mayview Rd.	Te-47621		
Redden, Forrest Jr.	FR	EE	Owens	Te-29464		Route 2, Clemmons, NC
Redford, David C.						Carolina Pines, Raleigh, NC
Redmond, James M.	FR	CE	Syme	Te-29222		375 Vesta Circle, Ridgewood, N. J.
Redmond, Jobie G.						Waterville, NC
Redwine, David H.	FR	ME	Owen			607 W. Side Dr., Lexington, NC
Redwine, Philip O.	FR	ARC	Syme	Te-29222		82 Maple S., Badin, NC
Redwine, Richard H.	SO	CHE	115 Woodburn Rd.	Te-22933		Route 1, Rural Hall, NC
*Reece, Joe W.	SR	NE	112 1/2 Shepherd St.	Te-21786		Box 37, Boonville, NC
*Reed, Charles R.	SR	ME	620 W. Lane St.,	Te-48353		Route 3, Forest City, NC
Reed, Harold Thomas	SR	IE		Te-29531		Box 205, Sylva, NC
Reed, John M.	JR	TX	Alexander	Te-9252		2131 Malvern Rd., Charlotte, NC
Reed, Melvin B.	SO	IE	Owen			Route 3, Canton, NC
Reese, Thomas E.	SR	CHE	Bagwell	Te-29412		7214 Schoyer Ave., Swissvale, Pa.
*Reel, Hoyt Lee	SR	ME	1008 Carlton Ave.			1009 Carlton Ave., Raleigh, NC
Reeling, Neil E.	FR	ME	Alexander	Te-29257		729 Manchester St., York, Pa.
*Reep, Bryan R.						1908 1/2 Park Dr., Raleigh, NC
Reese, Clint Manly	JR		1313 Hillsboro			
*Reese, Lawrence, David	SO	AED	Route 1, Cary	Te-32128		Route 1, Cary, NC
Reeves, Carl, Jr.	SR	EE	Syme	Te-29288		Marshall, NC
Reeves, Charles Robert	JR	TX	Becton			Box 61, Albemarle, NC
Reeves, George Fletcher,	SR	IE	Watauga	Te-29447		Morganton, NC
Reeves, John Thomas	SR	AED	1916 Smallwood Dr.	Te-41943		Route 1, Pilot Mountain, NC
Reeves, William E.	FR	CE	Tucker	Te-29186		Route 1, Hallsboro, NC
Reich, Donald Gray	FR	ME	Tucker	Te-29323		Burlington, NC
Reich, Edward A.	SO	ARC	602 S. Boylan			2836 Paxton Rd., Shaker Hts., Ohio
Reich, Samuel L.	FR	AG	Owen	Te-29410		Route 2, Winston-Salem, NC.
Reichard, Harry S.	SR	EE	Tucker	Te-29388		Route 5, Box 476, Charlotte, NC
Reis, Calvin, J.	SR	WT	1225 1/2 Duplin Rd.			511 S. Bradford St., Allentown, Pa.
Reits, Victor, Jr.	JR	ME		Te-49949		517 S. Summit, Charlotte, NC
Reiter, Donald M.	JR	TX	304 E. Park Dr.	Te-27638		113th St., Queens, N. Y.
*Reitzer, Ladislav F.						107 Glenwood Ave., Raleigh, NC
*Remini, William C.	SO	NE	1110 Douglas St.			2809 Dimears Blvd. New York
Rendie, Richard T.	FR	EE	Tucker			43 McKinley Ave., Caldwell, N. J.
Renfro, James P.	SO	FCM	Dixie Trail			Mountain Home, NC
*Renier, Joseph H.	SO	EE	719 W. Morgan St.	Te-21097		Greensboro, NC
Respass, Victor M.	SO	EE	Tucker	Te-29388		1601 S. Elm., Greenville, NC
Rettinger, James H.	FR	IE	Owen	Te-49836		104 N Berne St., Schuylkill Haven, Pa.
*Reveley, Mary E.						401 Kingsley St., Raleigh, NC
*Revelle, John P.	SO	AGC	120 Henderson St.			120 Henderson St., Raleigh, NC
Reusing, Koley	FR	CHE	Becton	Te-29261		231 Kimberly Ave., Asheville, NC
Reyners, Donald E.				Te-48932		Six Forks Rd., Route 1, Raleigh, NC
Ryenolds, Eugene Thomas	JR	CE		Ho-72186		451 W. Chatham St., Cary, NC
*Reynolds, Mildred H.						
Reynolds, Richard A.	SR	CE	Turlington			Box 12 Wadesboro, NC
Reynolds, William D.	JR	TX	Owen			317 Covington, Laurinburg, NC
Rhodes, Albert J.	SO	FOR	Turlington			Box 261, Brevard, NC
Rhodes, Charles H.	JR	NE	308 Horne St.	Te-27050		511 W. Front St., Burlington, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Rhodes, Lonnie B.	SO	AED	Owen	Te-29115	Route 1, Kinston, NC
Rhynes, Robert D.	SO	EE			614 Aiden Parkway, Fuquay Springs, NC
*Rhynes, Robert F.	SR	TX	9-B Vetville	Te-38553	Box 174, Ellenboro, NC
Ribakove, Richard M.	SO	TX	Fourth	Te-29159	Sanford, NC
Ribelin, Charles L.	SR	MEA	7 Enterprise St.		Route 5, Salisbury, NC
Rice, Clyde C.			747 Hillsboro		Box 705, Asheville, NC
Rice, James T.			Forestry Dept.		3 Fairway Dr., Raleigh, NC
*Rice, John C.			193 Williams		109 N. Ashely, Raleigh, NC
Rich, Clyde R.			2220 Hillsboro	Te-34339	Clinton, NC
Richards, Hardie L.	SR	AI	1405 Beaver Dam Dr.	Te-31735	Vinita, Okla.
Richardson, Clyde E.	JR	ME	Route 1, Cary		404 Council St., Thomasville, NC
Richardson, James J.	SO	ME	Turlington	Te-29291	Route 1, Castle Hayne, NC
Richardson, Theodore,	SO	AED	Tucker		Route 1, Blissex, NC
Rickell, Charles E.	FR	TC	Bagwell	Te-44161	9 West 12th, Frederick, Md.
Richmond, Wm. B.	JR	ME	Owen		Hillsboro, N.C.
Ricks, Fred G. Jr.	FR	AGE	Syme	Te-29150	Conway, N.C.
Richter, John F.	SO	NE	Turlington		6144 Reiden, Philadelphia, PA.
Riddick, Joe L. Jr.	FR	MEA	Owen	Te-29252	N. Main, Scotland Neck, NC
Riddle, Caswell A.	FR	NE		Te-27697	516 N. Bloodworth, Raleigh, NC
Riddle, Earle E. Jr.	FR	TX	Tucker		1009 Wind. Lexington, NC
Riddle, Robert C.	SR	ARC	Gold	Te-29263	Sanford, NC
Ridenhour, Jennings F.	JR	TX	Owen		415 North E. Ave, Kannapolis, NC
Ridout, Clarence B.	FR	E		Te-28630	3135 Stanhope, Raleigh, NC
*Riggan, Wilson, B.	GR	AGC	1302 Hillsboro	Te-28226	P.O. Box 114, Manassas, Va.
*Riggs, Robert D.	SR	PP	Owen	Te-47801	Pocahontas, Ark.
*Ringer, Joan Louise	SR	TS		Te-34910	1098 Nichols, Raleigh, NC
Ringold, Peter J.	FOR		1710 Hillsboro	Te-42001	11 Rectory Lane, Scarsdale, NY
Riordan, Dennis Patrick	FR	TX	Tucker	Te-29184	110 W. Main, Greenwood, N.J.
Ritchie, David J.	FR	CHE	Bagwell	Te-49151	117 W. Depot, Concord, NC
Ritchie, Donald F.	FR	PPM	Tucker		Hickory, N.C.
Ritchie, Henry Lee	FR	DM	Owen	Te-29252	RT#3, Concord, NC
*Ritchie, Hubert H.	SR	CHE	21E, Vetville	Te-28526	
*Ritchie, Wm. Merideth	JR	TX			801 Daniels St., Raleigh, NC
Ritter, Harold D.	FR	AC	Tucker		115 Green, Robbins, NC
Ritter, Sheldon H.	SR	TX	304 E. Park	Te-27638	28081st, Belle Harbor, NY
*Ritter, Wiley F. Jr.	JR	AGD	18 C, Vetville		18 C, Vetville, Raleigh, NC
Rivenbark, Sidney J. Jr.	FR	AG	Tucker		1819 Market, Wilmington, NC
Riviere, Richard Z. 3rd.	SO	ARC	1806 Hillsboro	Te-22565	Charlotte, NC
Rixote, Edward Jr.	SR	INH	Berry		RT#5, High Point, NC
Roach, Robert W.	SO	EE	Bagwell		1223 Franklin, Burlington, NC
Roane, Lawrence H. Jr.	FR	LA	Bagwell		Winston-Salem, NC
Robarge, Ronald Wm.	FR	ME	Tucker	Te-47939	Winston-Salem, NC
*Robbins, Simon E.	SO	EE	30B, Vetville		30B, Vetville, Raleigh, NC
*Robbins, Willis C.	SO	EE	P.O. Box 638		500 Grand Blvd, Boone, NC
Roberson, Edward Lee	JR	ZO	Syme		P.O. Box 104, Conetoe, NC
*Roberson, George W.	SR	TX	22A, Vetville	Te-42629	Forest City, NC
Roberson, Russell Leo	GR	AED	Watauga		RT#3, Williamston, NC
Roberson, Wm. Clyde Jr.	JR	EE	Bagwell	Te-29131	RT#3, Williamston, NC
Roberson, Wm. Young		MEA	Owen		RT#1, Smithfield, NC
Roberson, Robert Isley	FR	ME	902 W. South		325 3rd. SE, Hickory, NC
Roberts, Albert S. Jr.	SR	NE	1204 Groveland	Te-38077	Washington, NC
Roberts, Frank McK.	SR	CHE	2817 Wade		N.C.O.H. Gastonia, NC
Roberts, Frederick G.	FR	TX	Owen		10 Linda Lane, Darien, Conn.
*Roberts, Grats L. Jr.	EE		1039 Nichols	Te-20018	Fairfield, NC
*Roberts, Norris David	SO	ME	Buffaloe Trailer Pk.	Te-23036	501S. Green, Winston-Salem, NC
Roberts, Ira M.	SO	TX			Franklington, NC
Roberts, James W.	JR	AI	Hillcrest Rd.		Atkinson, NC
*Roberts, Jerry A.	JR	EPY	4A, Vetville	Te-42496	Box #2, Landis, NC
Roberts, Ralph D.	SR	AED	Becton	Te-29261	RT#1, Asheville, NC
Roberts, Don S.	SO	PHI	115 Woodburn	Te-22943	RT#1, King, NC
Robertson, George M.	SR	CHE	2514 Clark	Te-42451	10 Spears, Asheville, NC
*Robertson, Lindsey H. Jr.	SO	AI			
Robertson, Paul W. Jr.	FR	NE	Owen	Te-49836	RT#5, Lincolnton, NC
Robertson, Robert V.	SR	CE	Syme		Box 455, Troy, NC
Robertson, Wm. F.					410 Byrd, Greenville, NC
*Robertson, Wm. G. Jr.			18H, Vetville		18H, Vetville, Raleigh, NC
Robins, Wm. T. 3rd.	SO	CE	Tucker	Te-29312	Gloucester Point, Va.
*Robinson, J. Price Jr.					314 Mayview, Raleigh, NC
Robinson, Elmer James	SO	EE			960 Harp Terrace, Raleigh, NC
Robinson, Everett A.	SO	EE	Tucker	Te-29186	RT#2, Hara Hill, NC
Robinson, Henry B. Jr.	FR	FOR	Becton	Te-29261	1701 Colonial, Raleigh, NC
Robinson, Joe. T.	FR	CE	Tucker	Te-29186	RT#1, Gastonia, NC
*Robinson, Ralph D.	JR	CHE		Em-25751	Box 482, Garner, NC
Robinson, Ted Lee	FR	FOR	Owen	Te-29464	Lincolnton, NC
Rocco, Richard	FR	WCM	Tucker		508 4th. Northport, NY
Rochelle, Neil E.	FR	CE	Bagwell		507 Gattin, Durham, NC
*Rochelle, Sonnie C.			1508 Frank		3319 Angier, Durham, NC
Rock, Bernard J.	SO	NE	1618 Oberlin	Te-20912	340 9th. NW, Hickory, NC
*Rodgers, James G.	JR	IE	519 Grove	Te-25206	519 Grove, Raleigh, NC
Rodgers, Wills, P.	SO	TX	Turlington		Franklinville, NC
Rodri, Jos. C.	SO	REC	Turlington		Domingtown, Pa.
*Roe, Robert P.	JR	ARC	215 Hillcrest		330 Biltmore, Asheville, NC
*Rogers, Bobby C.	JR	ARC	2120 Clark		284 Parkway Ed. Tabor City, NC
*Rogers, Charles R. Jr.	GR	AGY	3821 Western Blvd.		Rocky Point, NC
*Rogers, Cynthia H.	GR	AIG	519 Grove.	Te-25206	519 Grove, Raleigh, NC
Rogers, James C.	JR	ME	Alxander		RT#2, Tabor City, NC
Rogers, James F.	JR	AGE	284A, Hillsboro	Te-22654	Rocky Point, NC
Rogers, John C.	SO	EE	Box 371, Zebulon, NC		1112 Johnson, High Point, NC
Rogers, Larry Lynn	JR	TX	304 Hillcrest	Te-24683	Lake View, South Carolina

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Rogers, Lonnie Joe	SO	EE	Becton	Te-29372	Route 2, Williamston, NC
Rogers, Robert C.	SR	ME	222 Hillcrest Rd	Te-23429	4019 S. Main St., High Point, NC
Rogers, William James	SO	CE	Owen	Te-29464	Box 264, Whittier, NC
Rogers, William H.	SO	ME	Owen		212 Polk St., Pineville, NC
*Rogers, Wyatt M.	SO	IA			623 Kirby St., Raleigh, NC
Rogister, Enos W.	SR	AI	Route 4, Raleigh	Te-47228	Route 4, Raleigh, NC
Roland, James D.	SR	EE	2614 Wade Ave.	Te-28543	Dacian St., Winston-Salem, NC
Rollins, Robert Waitzell	SO	AG	Owen		Star Route, Rutherfordton, NC
Rommette, John M.			747 Hillsboro		Batesville, Ind.
Rood, Harry	JR	NE	Welch	Te-29119	217 N. Cedar St., Greensboro, NC
Rooks, Robert Graham	JR	CE	16 Enterorise St.		16 Enterorise St., Raleigh, NC
Roper, William L.	SO	EE	Alexander	Te-29349	Box 22, Enghard, NC
Ropoulos, Chris J.	FR	CE	Syme	Te-20085	808 Lexington St., Charlotte, NC
Rose, David J.	JR	IA	Smallwood Dr.	Te-27050	1101 Sunset Ave., Rocky Mount, NC
Rose, Donald Leon	JR	EE	Horne St.		4607 3rd St., Arlington 3, Va.
*Rose, Donald Roderick	SR	ABD			Tarboro, NC
rose, Evastus E.	SR	CE	308 Horne St.	Te-27050	Route 2, Newton Grove, NC
Rose, James Turner	FR	ME	Becton	Te-47791	308 N Main St., Louisburg, NC
Rose, Herbert C., Jr.	FR	MEA	Owen	Te-29464	1008 Jenkins St., Lumberton, NC
Rose, John Edwin	FR	TC	Watauga		2741 Bucknell Ave., Charlotte, NC
Rose, Paul F.	FR	CE	Turlington		Valley Rd., Oakland, N. J.
Roseman, Clarence E.	FR	CE	Owen	Te-29252	Hickory, NC
Rosenberg, Harry M.	JR	NE	304 E. Park Dr.	Te-27638	909 S. St., Gastonia, NC
Rosendale, William Lee	FR	FOR	Alexander	Te-29349	86 Winston St., Hamilton, Ohio
Rosenstein, Norman D.	SR	TX	130 Hawthorne RD.	Te-47315	393 Entis St., Paterson, N. J.
Roseveare, Robert W.	JR	CE	Owen		1108 Overlook Dr., Greenville, NC
*Rose, Thomas Hyman	SR	IE	31-E Vetville	Te-47964	Box 576 Battleboro, NC
Ross, Ernest L.	JR	PPT	2514 Clark Ave.	Te-35422	2114 Oakland Dr., Cleveland, Tenn.
Ross, John R.	FR	NE	Owen		1406 N. Pacteur St., New Bern, NC
Ross, Kenneth Lee	JR	EE	Alexander	Te-47946	410 Bruns Ave., Charlotte, NC.
Ross, Owen B.	FR	IE	Owen	Te-29464	1132 Greenwood Circle, Charlotte, NC
Ross, William Earl	SO	EE	40 Dixie Drive		Route 5, Box 928, Charlotte, NC
Rosser, David C.	FR	ME	Becton		Prospect, Va.
Rosser, James Clayton	FR	ME			Broadway, NC
Rota, Gino L.	SO	FOR	11 Maiden Lane	Te-23429	Casilla 1033 Lima, Peru
Roten, June	SO	ARC	17 Stadium	Te-43921	Idelwild, NC
Roth, Robert Theodore	SO	ARC		Te-49803	337 W Main St., Elkin, NC
Rothrock, Thomas Hardy, Jr.	EE			Te-23663	131 Lake Forest Rd., Raleigh, NC
Rough, Ronald J.	SR	PPT	130 Hawthorne Rd.	Te-47325	396 Horton Highway, Minola, N. Y.
Roegeant, Ronald G.	SO	MEA	Tucker	Te-29387	1008 Ehringhaus St., Elizabeth City,
Rountree, James O.	FR	CE	Becton	Te-28261	Route 2, Ahoskie, NC
Rountree, Ralph M.	JR	ME	532 N. Wilmington	Te-28803	Route 1, Gates, NC
rouse, Douglas Earl	SO	EE	22 Stadium		511 Manning St., Kinston, NC
rouse, Marion N.	SR	AGC	107 Fourth	Te-29159	Route 5, Kinston, NC
rouse, Thurman L.	JR	CE	3 Ashe Ave.	Te-29437	Route 4, Kinston, NC.
rowe, Billy K.	FR	AG	Owen	Te-29387	Route 4, Louisburg, NC
rowe, Daniel G.	CE	CE	Tucker		509 7th Ave., N. W. Hickory, NC
Rowe, Michael B.	SO	IE	Alexander		1265 6th S. Hickory, NC
Rowe, Walker E.	FR	ME	1901 Glenwood Ave.	Te-29186	1901 Glenwood, NC
Rowell, Ford C.	FR	IRR	Tucker	Te-29367	311 Paul St., Rocky Mount, NC
Kowley, Lee A.	FR	ME	Tucker		Nordica Dr., Craton-on-Hudson, N. Y.
Roy, Donald H.					113 Hudson St., Raleigh, NC
Royster, Larry, H.	JR	MEA	Owen	Te-49279	Route 5, Ferrell Rd., Durham, NC
Royster, Robert Lee	SR	AE	Turlington	Te-23429	Clarksville, Va.
Royster, Robert S.	JR	IA	222 Hillcrest	Te-43133	Tarawa Terrace, NC
*Rofett, Robert.	FR	CHE	C-201 Boyland Apts.	Te-49805	C-201 Boyland Apt, Raleigh, NC
Ruble, Bobby I.	FR	FOR	Syme	Te-48030	Aberdeen, NC
Rudisill, Levis F. Jr.	FR	MEA	Owen	Te-48629	710 S. Neal, Gastonia, NC
Rudisill, Forrest D.	FR	EE	519 N. Wilmington	Te-48905	402 S. Grove, Lincolnton, NC
Rudisill, George A.	FR	ME	Syme	Te-48030	Charlotte, NC
*Rudisill, Lawrence E. Jr.	SR	EE	Stadium #3		817 B. Daniels, Raleigh, NC
Ruff, Carl G. Jr.,	SO	IE	1618 Hillsboro	Te-25105	Mill Spring, NC
*Ruffin, Mack T. Jr.	SR	MAG		Te-45393	Tarboro, NC
Rule, Eugene H.	FR	TX			A28, Cameron Ct. Raleigh, NC
*Rumage, Paul E.			P.O. Box 2313 Raleigh		147 W. Park, Mooresville, NC
Rundbaken, Leon A.	JR	PPT	Watauga		521 W. 189th, NY, NY.
*Rupard, Denver W.	JR	CE	Owen		Lenoir, NC
*Ru-pih, Wang			11 Enterprise		Formosa
*Ruppenthal, Frederick					RT#3, Raleigh, NC
Russ, Clarence M.	FR	AG	Turlington		Box 176, Shallotte, NC
Russ, Kenneth E.	JR	CE	Owen		HPD #2, Burgaw, NC
Russell, Charles H. Jr.		TX			1706 Bickett, Raleigh, NC
Russell Charles J.	FR	TX	Tucker		Box 595, Troy, NC
*Russell, Jesse K.	SO	FOH	109 N. Boylan	Te-23200	Box 416, Monaker, Va.
Russell, Norman A.	FR	FOR		Te-29437	634 New Rd., Raleigh, NC
Russo, Edward	FR	FOR	Owen		Orange, NY
Rutberg, Michael A.	SO	TX	130 Hawthorne	Te-29587	400 E. 55th, NY, NY
Ryan, David W.	SR	TX	Tucker		RT#8, Box 692, Greensboro, NC
Sabiston, Larry T.	FR	DS	Syme		Jacksonville, NC
Sadler, Eugene E. Jr.	FR	AG	Box 4732 State		Engelhard, NC
*Sadler, Kermit I.	FR	ABD		Te-47325	Box 96, Apex, NC
Saffer, Henry W.	SR	TC			Rockway, NY
Safriet, Daniel A. Jr.	SR	CE	Turlington	Te-41476	Box 297, China Grove, NC
*Sagaro, Mario	PR	ARC	22D, Vetville		22D, Vetville, Raleigh, NC
Sales, Junius Lee Jr.	SO	AG	Tucker		RT#6, Asheville, NC
Salih, Abdul Malik M.	JN	FOR	Box 5753 State	Te-40435	Ana, Iraq
Saied, Thomas A.	SO	CE	7 Enterprise		414 W. 4th, Greenville, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Sain, William Carlos	SO	EE	Turlington	Te-29192	1001 Eighth St., Statesville, NC
Salisbury, Robert E.	FR	EE	Tucker		113 McTeer Circle, Beaufort, SC
Salmon,Neill M.	JR	DN	Tucker		9th St., Lillington, NC
Salmons, Joseph C.	JR	ME	1508 Frank St.	Te-29110	1508 Frank St., Raleigh, NC
Salter, Luther C.	SR	NE	Watauga	Te-29132	1717 York St., Sheffield, Ala.
Samouce, John W.	FR	NE	Barwell	Te-29151	428 Hollingswood Cir., Fayetteville
Samet, Norman Gilbert	SO	CEC	Watauga		300 Edgedale Dr., Raleigh, NC
Samia, Arthur M.	SO	NE	Room 19, Stadium		605 S. Oleander St., Goldsboro, NC
Sample, Hugh D.	SR	TX	3414 Hillsboro	Te-34808	2210 Walker St., Greensboro, NC
Samples, James L.	FR	EE	Becton	Te-29732	Route 3, Hickory, NC
Samuels, James D.	FR	CE	Barwell	Te-29131	1201 Filbert St., High Point, NC
Sanches, Carolstradio	SR	AG	123 Brooks Ave.		Call, Columbia
Sanches, Richard J.	SO	DM	Owen	Te-29117	15 Forest Rd., Murray Hill, N. J.
Sanders, Graham H.	SO	IE	2400 Delta Dr.		110 Griffin St., Elisabeth City, NC
Sanders, John W.	SO	CE	308 Horne St.	Te-27050	723 E. Whitaker Mill Rd., Raleigh, NC
Sanders, Martha D.	SO	AHC	2201 Hope St.		Route 1, Sanford, NC
Sanders, Ralph L.	SR	NE	Gold	Te-29263	311 N. Tacco Ave., Chattanooga, Tenn.
*Sanders, Theron V.	JR	AED	926 N. Boylan Ave.	Te-21981	Route 1, Bailey, NC
Sanders, William F.	SO	EE	Syme	Te-29222	48 Henderson St., Badin, NC
Sanderson, Durwood A.	FR	EE	Turlington		Route 1, Morehead, NC
Sanderson, Edward J.	JR	AED	Barwell	Te-29111	Route 3, Fairmont, NC
Sanderson, Hugh Milton	SR	CE	2512 Clark Ave.	Te-24843	16 Holly St., Erwin, Tenn.
*Sanderson, William Rivers	SO	AED	Cameron Courts		1-3-B Cameron Courts, Raleigh, NC
Sandridge, James Craft	FR	EE	Owen		1677 Woodland Ave., Burlington, NC
*Sane, Charles Elbert	SO	AED	Halifax St.	Te-27406	Route 3, Rutherfordord, NC
Sanford, Claude W.	FR	CE	Owen	Te-29464	419 First St., Laurinburg, NC
Sanghvi, Kishor G.	FR	TX			Bombay 16, India
Sansbury, Austin B.	FR	ME	Becton	Te-29373	518 Godwin Ave., Lumberton, NC
Santowasso, Leo A.	JR	CE	Berry		579 Union St., Rahway, N. J.
*Sarah, Gedrige B.					Athens, Greece
*Sarah, Ram		AGC	Becton		Dalla, India
Sarter, Lester, B.	SR	EE	Fourth	Te-29159	706 Lefferts Ave., Raleigh, NC
Sasser, George C.	SO	CE	1508 Frank St.		Route 2, Goldsboro, NC
Sasser, Preston E.			Owen		
*Sastrakusumah, Sumaroi	JR	ABC	402 W. Park Dr.	Te-22963	407 W. Park Dr., Raleigh, NC
Satterfield, Lynwood G.	SR	IED	1233 Park Ave.		1201 Ivy St., Durham, NC
Sauls, James, Jr.	FR	EE	Alexander	Te-29349	Route 1, Warsaw, NC
Saunders, David L.	SO	TX	Tucker	Te-29388	Route 6, Charlotte, NC
Saunders, Harvey H.	FR	EE		Te-37688	1001 Glenwood Ave., Raleigh, NC
Saunders, James C.	FR	ME	Owen	Te-49536	Route 1, Rockingham, NC
Savage, Ronald L.	SO	IEH	Alexander		515 S. Main St., Chincoteague, Va.
Sawyer, Earl E.	FR	AG	Turlington		26 E. Zane Ave., Collingswood, N. J.
Sawyer, George Jr.	JR	FOH	125 Hawthorne Rd.		Murray Hill, W. J.
Sawyer, Jerry A.	FR	NE	Owen	Te-29410	Route 2, Box 111, New Bern, NC
Sawyer, Robert P.	JR	EE	21 Enterprise St.	Te-21840	Route 3, Elisabeth City, NC
Sax, Charles S.	SR	AHC	112 Cox Ave.	Te-23960	2070 Harrison Ave., New York, N. Y.
*Stonesky, Roy W.	SO	FOR		Te-45377	2129 Grant, Raleigh, NC
*Scapi-pa Frank S.					19 E. Dixie Dr., Raleigh, NC
Scanlon, Daniel G.					New York, NY
Scanlon, David H.	JR	ME	118 Hillcrest	Te-23271	118 Hillcrest, Raleigh, NC
Scarboro, Beaman H.	JR	IR	Becton	Te-29372	Wilson Ave, Wendell, NC
Scarborough, Paul W. Jr.	SO	EE	Berry	Te-29363	Statesville, NC
Scarborough, Robert K.	FR	IA	Barwell	Te-29111	1199 S. Box 342, Greensboro, NC
Sciaretta, James R.	FR	EE	Tucker		Box 171, Rochester, Pa.
Scism, John A.	SO	AG	Barwell		RT#1, Kings Mtn., NC
Scott, Augustus D.	FR	IA	Owen	Te-49406	Currie, NC
Scott, Bobby Gene	FR	FOR	Becton	Te-29334	1019 3rd. Spencer, NC
Scott, David B.	FR	S	Owen	Te-29164	Ashboro, NC
Scott, Frederick M. 3rd.	SO	ME	2513 Clark	Te-20268	406 Woodland, Jacksonville, NC
Scott, George W.	SO	EE	Box 5543 State	Te-28793	2400 Delta, Elisabeth City, NC
Scott, Henry A. Jr.	SR	AI	Alexander		
Scott, Jesse M. Jr.	FR	FOR	Barwell	Te-49151	P.O. Box 243, Franklin, Va.
Scott, John McI.	SO	FOR	Tucker		Charlotte, NC
Scott, Leo Rhem	FR	FOR	Owen	Te-29410	RFD#2, New Bern, NC
*Scott, Wm. C.	JR	DM	3411 Hillsboro	Te-35298	Mebane, NC
Schaub, Sandra	FR	EM	119 Brooks	Te-36428	Box 218, Apex, NC
Scheld, Herbert W. Jr.	FR	FOR	Tucker		1110 S. Box 428, Statesville, NC
Schiff, Mark A.	SO	CE	304 E. Park	Te-27638	New Hyde Park, NY
Schaffield, James H.	SO	TE	Syme		Bessemer City, NC
*Schmid, Frederic H.	FR	MEA	Tucker		Asheboro, NC
Schmitt, Alfred J. Jr.	SO	EE	Syme		Enfield, NC
Schoenfield, Eugene C. Jr.	SO	ARC	2232 Hillsboro		1110 S. Box 421, Greensboro, NC
Schoonba, Ker Donald O.	FR	IA	Tucker	Te-29367	Huntington, NY
Schram, Samuel P.	FR	AED	Becton	Te-29111	1110 S. Box 421, Greensboro, NC
Schreffler, David E. Jr.	SR	TX		Te-31663	1110 S. Box 421, Greensboro, NC
*Schroeder, Rudolph J.	SR	TX	15 N. Harrington		602 W. 8th. Newton, NC
Schrum, Forrest F. Jr.	SR	E.	207 Fourth	Te-29159	
*Schrum, Vernon J.			Box 9051 State		
Schul, Wm. A. Jr.	SO	FOR	Owen	Te-29116	700 S. Glenside, Hamilton, N.
Schultz, Gary C.	FR	PPT	Syme	Te-29222	Dayton, Ohio
Schuster, Robert	SO	TX	Owen	Te-29115	Hillside, NJ
Scott, David J.	SR	IA	509 Adams	Te-29169	1110 S. Box 421, Greensboro, NC
Shannon Vinson K.	FR	ME	Owen		Box 627 Sylva, NC
*Shaw, Roy C.	FR	EE	1114 Douglas	Te-49711	1110 S. Box 421, Greensboro, NC
Shearin, Edwin A.	FR	EPY	Tucker	Te-29112	RT#1, Varna, NC
Shearon, Hubert M. Jr.	FR	EE	Syme	Te-29150	RFB#1, Advance, NC
Sheek, Aiton J.	FR	ME	Syme	Te-29222	1110 S. Box 421, Greensboro, NC
Sheffield, Charles M.	FR	ARC	Owen	Te-29452	

NAME	YR	SCHOOL	CAMPUS	ADDRESS	TELEPHONE	HOME ADDRESS
*Shepard, Kathryn Y.	PR	FOR	Tucker		Te-49739	424 S. Bloodworth, Raleigh, NC
Shepard, Wm. T.	FR	EE	Owen		Te-29115	RT#2, Box 476, Weaverville, NC
Shepherd, Wm. F.	FR	CE	Becton		Te-29410	Lansing, NC
Sheres, James H.	FR	NE	Owen			Shelby, NC
Shi, Samuel, R. Jrd.	FR	ME	Owen		Te-29464	RT#2, Candler, NC
Shillinglaw, Robert T.	FR	ME	Owen		Te-29256	Clinton, NC
Shipp, Clarence F.	FR	CE	Becton			611 10th. N. Wilkesboro, NC
Shook, James G.	FR	FM	Turlington		Te-43922	495 S. Boylan, Raleigh, NC
*Shuford, Wm. V. Jr.	FE					Greenville, NC
Siders, George N. J.	FR	CHE	Becton			3714 Moody, Richmond, Va.
Stewart, Charles E.	FR	NE	Owen		Te-29437	Fisher Rd., Brevard, NC
Simon, Harvey W.	FR	EE	Tucker		Te-29387	Westport, Conn.
Sillan, Pierre G.	FR	TX	Bagwell		Te-29131	Gastonia, NC
Simmons, Clyde E.	FR	GEE	Owen		Te-29410	RFD#1, Enfield, NC
Simmons, Eugene M. Jr.	FR	AGE	Owen		Te-29252	RT#3, Box 35, Columbia SC
Simmons, Franklin G.	FR	AG	Watauga			222 King, Georgetown, SC
Simmons, Wm. L. Jr.	FR	FOR	Owen			Oberlin Rd., Raleigh, NC
Simpson, James D. Jrd.	FR	CE	Tucker		Te-29323	Rowland, NC
Singletary, Wm. W. Jr.	FR					300 Garner Rd., Garner, NC
Sitterson, Janette L.	FR	IE	Syme		Te-29222	347 Sand Hill, Asheville, NC
Sutton, Harry A.	FR	AG	Syme		Te-29222	Blanche, NC
*Slaughter, Wilson Al. Jr.	FR	AG	Syme		Te-29131	1608 Sumter, Charlotte, NC
*Sloop, Craven M. Jr.	SR	E	Bagwell			Box 304, Cherryville, NC
Seagle, Murl E.	FR	TX	137 Garner			822 Daniel, Raleigh, NC
Seago, James M.	FR	TX	Bagwell		Te-29186	RT#3, Box 199, Concord, NC
Seagraves, Harold O'N.	FR	CE	Tucker			214 W. Gilbert, Graham, NC
Seaman, Walter R.	FR	EE	Tucker			RT#1, Varina, NC
Sears, James M.	SO	TX			Te-24683	408 Park, Aberdeen, NC
Seawell, Arnold W. Jr.	FR	ARC	Bagwell		Te-29412	Box 336, Bryson City, NC
Seay, Faset Joaquin	FR	PE	Owen			Windber, NC
Seese, Roy A.	FR	NE	Tucker			Newton, NC
Sechlea, Wm. H.	SR	TX	Turlington		Te-29297	12 Harding, Oaklyn, NJ
Sertz, Robert P.	SR	TX				401 Guilford, Raleigh, NC
*Seidenstein, Max A.	FR	EE			Te-29412	Richmond, Va.
Selder, Charles W. Jrd.	FR	FOR	Bagwell		Te-29763	RT#1, Casar, NC
Sell, Maynard L.	JR	AI	College Dairy			Winston-Salem, NC
Sell, James Milton	JR	CHE	Owen			510 S. 10th, Bessemer City, NC
Sellers, Bobby E.	SO	CHE	Syme		Te-29222	Rockingham, NC
Sellers, Mitchel W.	FR	TX	Tucker		Te-29312	Castalia, NC
Settle, Joe E.	SR	IE	2702 Hillsboro		Te-21835	306 Am, Kannapolis, NC
Settemger, Charles P.	JR	MEA	2512 Clark		Te-24843	Box 293, Drexel, NC
Settlemyer, Ted P.	JR	EE	Watauga			RFD#3, Lenoir, NC
*Setzer, Ward L.	SO	CE	615 Willis Forest		Te-37679	84 Edwin, Asheville, NC
Sevier, Joseph T.	JR	NE	Watauga		Te-29447	Leaksville, NC
Self, George D. Jr.	SO	ME	Owen		Te-26543	Box 336, Bryson City, NC
Seay, Robert T.	JR	EE			Te-29159	RT#3, Siler City, NC
Self, Ostia R.	JR	CE	108 4th.			Mill Spring, NC
Searcy, Donald B.	JR	EE	3 Stadium			Bareilly, U.P. India
*Seth, Jagdish	GR	ACC			Te-43896	1621 Van Dyke, Raleigh, NC
*Searls, Donald T.	GR	ACC				512 Kentwood, Lenoir, NC
Seater, James R.	SO	EE	2400 D-lla Drive			84 Edwin, Asheville, NC
Sevier, James M.	FR	NE	Watauga		Te-29132	RFD#2, Cave Springs, Ga.
Sewell, John Ike	JR	NE	Gold		Te-29263	Box 863, Southern Pines, NC
Seymour, John L.	FR	NE	Syme		Te-29150	Hookerton, NC
Shackelford, Arthur H.	SR	FC	2718 Lark		Te-26451	Aurora, NC
Shackelford, Charlie Jr.	SO	IE	Welch		Te-29119	Bombay, India
Shah, Ashok R.	SR	TX	109 Oberlin Rd.		Te-41547	W. Pakistan
Shaikh, Magbool U.	SR	TX	2729 Everett		Te-21229	Wilmington, NC
Shain, B.	JR	NE	409 Chamberlain			Detroit, Mich.
Shakarji, George M.	SO	ST	Syme			
Shaklin, Julius A.	SO	EE	406 Brooks		Te-21058	RFD#6, Jonesboro, Tenn.
*Shanks, John R.	SR	FM	981 Harp Terrace			Box 197, Elizabeth City, NC
*Sharber, Wm. W.	SR	IA	Box 5173 State		Te-32128	RT#1 Box 118 Sharpsburg, NC
Sharpe, Boyd	SO	AED	Bagwell			RT#2, Raleigh, NC
*Sharpe, Ronald V.	SR	TE	RT#2, Raleigh		Te-31809	RT#3, Box 182, Chapel Hill, NC
Sharpe, Wm. N. Jr.	SO	ME	3205 Hillsboro		Te-36401	Evergreen, NC
Shaw, Archie W.	JR	FC	Fourth			623 Daniels, Raleigh, NC
*Shaw, Charles P.	SR	AI	Fourth			Evergreen, NC
Shaw, Robert M.	SO	CE	Owen		Te-29252	Monroe, NC
*Shaw, Wesley L.	SR	CE	37D, Vetville			Box 63, Harrisville NH.
*Shea, Wilfred M.	EE		2100 Ann			2100 Ann, Raleigh, NC
Shearin, Herbert N.						kk6 Forest Rd. Raleigh, NC
Shearin, Virginia J.						Varina, NC
*Shearin, Walter Lee Jr.	JR	WPM	23 E. Vetville		Te-29150	Jefferson, NC
Shearon, Hubert R. Jr.	FR	EE	Syme		Te-28631	RT#1, Connolly Springs, NC
Sheets, Clayborn G.	SR	AED	2601 Clark			114 Highland, Thomasville, NC
Shelly, John H.	SR	ATP	Tucker			P.O. Box 1514, Shreveport, La.
Shealy, Lemuel D. Jr.	SO	EE	Becton			Raleigh, N.C., Raleigh, NC
*Sheard, Joe H.	GR	NE	1005 St. Mary		Te-29874	Charlotte, NC
*Shepherd, James E. Jr.	JR	HRT	Greenhouse			Laurel Springs, NC
Shepherd, Marshall, M. Jr.	JR	HRT	College View Trailer		Te-34587	Gastonia, NC
*Shepherd, Reeves T.	GR	EE	2220 Hillsboro		Te-42986	Yadkinville, NC
Sherman, Gordon B.	GR	DN	1104 Parker			1104 Parker, Raleigh, NC
*Shermer, Allen V.	JR	IA	1104 Parker		Te-22571	Buck Jones Rd., Raleigh, NC
*Shermer, Ruth D.	GR					Cherryville, NC
Sherrer, John M.		EE	Turlington			RT#2, Fuquay, Springs, NC
Sherrill Charles	SO	IRR	Berry		Te-29350	Formosa, Free China
Sherron, Jim K.	JR	TX	Gold		Te-29263	
Shih, Hsueh Yao						

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*Shinn, Lamont A.		KE	280, Vetville	Te-49627	102 Harrison, Warwick, Va.
Shipman, Robert F. Jr.	JR	EE	Owen	Te-29252	Charlotte, NC
Shipman, Wm. D. Jr.	SR	TX	1942 C. Smallwood		Bladensboro, NC
Shirley, George, R.	SR	TX	708 Hillsboro		430 2nd. NW, Hickory, NC
*Shook, Charles A.	JR	ME	605 1/2 Boundary	Te-44523	
Shook, Edward A. Jr.	SR	PM	222 Hillcrest	Te-23429	611, 10th. N. Wilkesboro, NC
*Shores, Paul W.	SO	EE	Pine Lake RT#5.		1508 1/2, Greensboro, NC
*Short, Howard P. Jr.	SR	TX	1809 Park	Te-46067	
*Shualib, Muhammad					West Pakistan
Shuford, Charles H.	JR	TX	2612 Clark	Te-10671	Country Club, Hickory, NC
*Shuping, James A.			1109 1/2 Cowper		Morganton, NC
Sibley, Shelley Dan	SO	ME	208 Taylor		Albemarle, NC
Sidbury, Melvin D.	JR	ME	Syme	Te-29150	Box 73, Hampstead, NC
Siders, John N.	SO	ME	Becton	Te-29256	Greenville, NC
*Sides, Cornelius D. Jr.	FR	ARC	114 Park	Te-40581	Concord, NC
Siegrist, Edward J.			412 Stacy		High Point, NC
Siewers, Ralph D. 3rd.	SR	AI	YMCA State	Te-27184	Winston-Salem, NC
*Sifford, Ralph G.	JR	HAC			RT#1, Raleigh, NC
Sigmon, Arville J.	SO	AGE	Becton	Te-29256	RFD#1, Newton, NC
*Sigmon, Boyce	JR	EE	218 Georgetown		300 Elm, Greenville, NC
Sikos, Eugene P.	SO	CE	Berry		Springfield, Mass.
Sisk, Kenneth N.	SO	HAC	2314 Hillsboro	Te-34106	Asheville, NC
Silver, George W.	SR	ARD	Syme	Te-49805	RT#2, Burnsville, NC
Simaan, Behnam B.	SR	AI	Box 5034 State		Zakho, Iraq
Simmons, Gerald D.	JR	ME	Becton	Te-29256	Box 140, Albemarle, NC
Simmons, Hugh E.	SO	TX	Tucker		Hickory, NC
*Simmons, James D.	PR	CE	716 Brooks	Te-47259	Ash, NC
Simmons, James E.	JR	AG	Owen		Enfield, NC
Simmons, Robert C.	JR	FCM	8 Ferndale Lane	Te-21755	Whiteville, NC
*Simmons, Wayne H.	SR	TX	24A, Vetville		Stuart, Va.
Simmonson, George K.	JR	IA	Alexander		Falls Church, Va.
*Simpler, Malcolm G. Jr.	SO	ME	Tucker	Te-29312	RT#5, Box 856, Charlotte, NC
Simpson, John A.	SR	IE	Alexander		RT#4, Oxford, NC
*Sims, Jos. I.					3117 Georgian Ter. Raleigh, NC
*Singh, Har S.	GR	AGG	Gold	Te-29263	Delhi, India
Singletary, June Jr.	SR	EE	Becton	Te-29334	RT#1, Bladenboro, NC
*Sivik, Frank P.	GR	ENT	UK24, Vetville	Te-29282	87 Crescent, Greenfield, Mass.
Sink, Henry R.	SO	ME	Owen		RFD#3, Thomasville, NC
Sizemore, Nearoud	SO	ME	Tucker		511 8th, Winston-Salem, NC
Sisler, Edward C.	CO		8 Ferndale Lane		Friendsville, Md.
Skinner, Argyle C.	SR	ME	120 Hillcrest		
Skipper, Howard E. Jr.	SR	TX	Owen		Box 82, Red Springs, NC
Slack, Robert C.					3020 Leonard, Raleigh, NC
*Slaydon, John F.	JR	EE		Te-37227	113 Carter, High Point, NC
Sloan, Donald A.	ME	SO		Te-24868	1508 Frank, Raleigh, NC
*Sloan, Marvin K.	JR	HAC	350, Vetville	Te-29498	105 N. 10th, Erwin, NC
Sloan, Richard C.	SR	CE	2400 Delta Dr.		Mt. Uila, NC
Sloop, Larry E.	SR	EE	Tucker		209 Allred, High Point, NC
Sloop, Paul A.	JR	ME	130 Woodburn	Te-30083	RT#3, Box 331, Concord, NC
Slone, Thurman H.	JR	CEC	Becton	Te-29256	Box 27, Wharton, W. Va.
Small, Howard G. Jr.	JR	ARC	Alexander	Te-49746	Fair Bluff, NC
Small, James J.			116 Hawthorne		Charlotte, NC
Smallwood, Robert T. Jr.	JR	DM	Bagwell	Te-37351	New Albany, Miss.
Smart, Eric E.	JR	ME	2514 Clark		712 George, Forest City, NC
Smathers, Bruce L.	SO	PPT	Owen	Te-29115	Box 108, Canton, NC
Smathers, James B.	SR	NE	Tucker	Te-29323	Deland, Fla.
Smathers, Robert L.	FR	FOR	2209 1/2 Hope	Te-43244	Box 643, Gandler, NC
Smathers, Sam T.	SO	FOR	222 Hillcrest		RT#1, Canton, NC
*Smiley, David D.	SR	IE	2902 Everett	Te-21476	220 Milford Hills, Salisbury, NC
Smith, Alfred G.	FR	ME	Owen	Te-29410	RT#4, Kinston, NC
Smith, Allie G.	SO	AGY	Becton		RT#1, Newmarket, NC
*Smith, Archie H.	SO	PM	114 Faircloth	Te-28266	RT#2, Box 100, Mill Springs, NC
Smith, Arthur H.	SO	MEA	Owen		Kings Mtn. NC
*Smith, Benjamin T.					#F, Glenwood Arms, Raleigh, NC
*Smith, Billy N.	SR	ME	10P, Vetville		10P, Vetville, Raleigh, NC
Smith, Bobby, E.			2612 Clark		2113 Buckingham, Raleigh, NC
Smith, Carroll W.	SR	TX	971 St. Mary	Te-31327	971 St. Mary, Raleigh, NC
Smith, Charles H. Jr.		MEA	2302 Hillsboro	Te-22714	W. Garden, Marion, NC
Smith, Charles M.	FR	NE	Syme	Te-29288	Rutherfordton, NC
*Smith, Charles W.	JR	EE	31D, Vetville	Te-48047	31D, Vetville, Raleigh, NC
Smith, Charles Wm.	SO	TX	Bagwell	Te-40485	Laurinburg, NC
Smith, Craig J. Jr.	SO	HAC	Tucker		Albemarle, NC
Smith, Chris A.	FR	AGG	Syme	Te-29222	Clinton, NC
Smith, David Albert	SO	AG	2308 Hillsboro	Te-29284	Greensboro, NC
Smith, David Lee	SO	PM	Alexander	Te-29257	506 W. Green, High Point, NC
Smith, Dennis H.	SR	TX	Alexander	Te-49746	RFD#2, Marshville, NC
Smith, Duane C.	SO	EE	Turlington		RT#5, Box 325, Kannapolis, NC
Smith, Duncan S.	FR	AG	Tucker	Te-29367	RT#1, Maxton, NC
Smith, Drayton L. Jr.	SO	ME	Owen	Te-29464	Albemarle, NC
Smith, Drexel K.					
Smith, Earl Terry	FR	CE	Tucker	Te-29323	618 2nd, Hamlet, NC
Smith, Eddie A.	FR	ARC	Tucker		Box 613, Elizabethtown, NC
Smith, Edgar Wm.	JR	ME	Alexander		Shawboro, NC
*Smith, Edward Ray	FR	FCM	2300 Lyon		2300 Lyon, Raleigh, NC
*Smith, Edwin Blean	SR	ME	408 Elm St.	Te-20226	RT#1, Box 155, Black Mtn. NC
Smith, Eugene E.	SO	IE	Becton		Greensboro, NC
Smith, Faison D. Ath.	FR	AG	Tucker	Te-29323	Box 5, Albemarle, NC
Smith, Floyd A. Jr.	SO	CEC	2316 Hillsboro	Te-44173	702 Nelson, Kinston, NC
Smith, Frederick Wm.	SO	ME	Tucker	Te-29312	Winston-Salem, NC

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*Smith, Gaston F. Jr.	JR	CEC	35D,Vetville	Te-40518	Asheville, NC
*Smith, George W.	GR	WT	Becton	Te-22894	2213 Dixie Trail,Raleigh,NC
Smith, Harry R.	FR	FMH	Becton	Te-29288	1536 Rankin, Greensboro,NC
*Smith, Haywood B.	SO	EE	Syme	Te-49836	RT#5,Box 196,Fayetteville,NC
Smith, Howard W.	FR	CE	Owen		RT#2,Box 222,High Point,NC
Smith, Iverson R.	SO	ME	Becton		RT#2, Newton,NC
*Smith, James I.	SO	A	1508 Frank	Te-22241	Winston-Salem, NC
*Smith, Jimmie Lee	JR	AI	Raleigh, NC	Te-35312	P.O. Box 5224,College Sta.
*Smith, James LeRoy			1429 Beaver Dam Rd.		Raleigh, NC
Smith, Jimmie M.	SO	CEC	Alexander	Te-29257	Box 68, Pincola, NC
*Smith, James W.	GR	DM	2122 Mayview	Te-19801	Raleigh, NC
Smith, Jerry Alan	FR	CE	Tucker	Te-29186	Box 43, Lenoir, NC
Smith, Joe M.	SR	AI	Becton	Te-29372	RFD#1, Peachland,NC
Smith, John L. Jr.	SR	CE	115 W. Park Dr.		RT#1, Box 470A, Concord, NC
Smith, John W.	FR	AG	Becton		RT#1, Fountain, NC
Smith, Larry A.	JR	AED		Te-29421	RT#2, Marshville, NC
Smith, Larry B.	FR	CE	Syme	Te-29421	Marshville,NC
Smith, Larry E.	FR	EE	Syme	Te-49303	Fayetteville, NC
Smith, Lathan J.	FR	AG	#8 Stadium		RFD#1, Troutman,NC
Smith, Lester A.	FR	CE	Tucker		RT#3, Kernersville, NC
Smith, Max G.	FR	CE	Tucker		RT#6, Winston-Salem,NC
Smith, Rigdon R.	SO	MEA	Berry		RFD#1 Brown Summit,NC
Smith, Richard P.	FR	CE	Owen	Te-29115	1017 Cedar,Roanoke Rapids,NC
Smith, Richard L.	SO	CE	Owen		Box 185,Rutherfordon,NC
Smith, Robert B.	SO	EPY	2612 Clark		Edenton, NC
Smith, Robert Earl	JR	AED	Becton	Te-29256	RT#2, Angier, NC
Smith, Robert F.	FR	NE	Bagwell		114 Ruth,Fayetteville,NC
Smith, Robert G.	SO	IA			517 Waldo, Cary,NC
Smith, Roy M.	JR	EE	Owen		RT#1, Marshville, NC
*Smith, S ue C.					114 Faircloth,Raleigh,NC
Smith, Theodor B.	FR	FOR	Becton	Te-29334	Edenton, NC
Smith, Thomas D.	FR	TX	Tucker		Roger St.,Graham, NC
Smith, Thomas E. Jr.	FR	MEA	Bagwell	Te-49151	Sanford, NC
Smith, Victor H.	FR	CE	Syme		Airline, Gastonia, NC
Smith, Wayne, P.	SR	AED	Watauga	Te-29132	
Smith, Wayne Stacy	SO	AG	Turlington		1208 Patterson,Shelby,NC
Smith, Wm. Clay	FR	TX	Bagwell		Box 61, Spindale, NC
Smith, Wm. David			Tucker		141 S.Elms,Asheboro,NC
Smith, Wm. E. 4th.	JR	NE	#12 Stadium	Te-49803	Goldsboro, NC
Smith, Wm. Marvin	SO	AGY	Owen	Te-29410	RT#1, Selma, NC
*Smith, Milton Uzzle	SR	AGY	6D,Vetville		RT#2, Louisville, NC
Smith, Woodley K.	FR	CE	Owen	Te-29410	RT#1, Deep Run, NC
Smith, Zoe H.	GR	ABC			Box 5522, State, Raleigh,NC
*Smoot, Wm. V.					RT#4, Box 158-A,Raleigh,NC
Smyre, Jimmie R.	SR	IA	Bagwell		341 3rd.S.E. Hickory,NC
Smyth, Eugene L. Jr.	JR	TX	Tucker		18 Cary Rd.Great Neck,NY
*Snead, Robert G.			2511 Clark	Te-20260	Star Rt. Danville, Va.
Snead, Ronald E.	JR	AGC	Tucker	Te-29387	RT#3, Oxford, NC
Snyder, Ann C.	GR	GS	2707 Ashland	Te-33200	1812 Arlington,Raleigh,NC
*Snyder, Charles E.	SO	ME	625 Kirby	Te-49746	RT#4, Winston-Salem, NC
Snyder, Glenn H.	FR	MEA	Alexander	Te-29150	Charlotte, NC
Snyder, Howard F.	SO	EE	Syme	Te-27638	RT#6, Sanford, NC
Solomon, Michael D.			304 E. Park Dr.		278 Dover, Brooklyn,NY
Solomonic, Robert J.	SO	EE	2628 Fairview Rd.	Te-29297	405 Crescent,Greenville, SC.
Solomon, Everett E. Jr.	SR	PO	Turlington	Te-23558	Box 161, Plymouth,NC
Somerville, Donald H.	SO	EE	104 Dixie Trail	Te-33432	Manila, Philippines
Son, Nomeriano Santos	SR	ARC	124 Enterprise		Manahawkin, NJ
Sonn, George F.	SO	CHE	602 S. Boyland		210 Cox, Raleigh, NC
*Soots, Robert F. Jr.	FR	WCM		Te-29261	West Ave. Wadesboro, NC
Sorrell, Furman, Y.	SO	MEA	Becton		Box 43,Gilkey,NC
Sorrells, Jack O.	FR	TX	Turlington		Goldsboro, NC
*Southernland, Charles R.	FR	CEC	604 1/2 Dixie Trail	Te-38055	
*Sorrells, Wm.P.	JR	CE	1611 Oberlin		Dunedin, Fla.
Souza, Richard V.	JR	EE	Box 5564 State		P.O. Box 483, Thomasville, NC
Sowers, Darwin H.	JR	EE	Owen	Te-29186	Lexington, NC
Sowers, Johnny A.	FR	CRE	Tucker	Te-29142	RT#3, Bristol, Va.
Spahr, Lawrence E.	SO	TX	Owen		RT#6, Fairview,Raleigh,NC
Spain, Milton R.	SR	AGC	Owen		1802 Fairview,Raleigh,NC
*Spaine, Lawrence P.				Te-29387	P.O. Box 74,Trenton,NC
Spann, James W.	JR	ECM	Tucker		511 S. Broad,Winston-Salem,NC
Sparks, Jackie Lamar	JR	IE	Berry	Te-42249	RT#3, Gastonia, NC
Sparrow, Thomas G.	SO	TX	1328 Filmore	Te-29297	Sinston-Salem, NC
Speaks, Charles C.	FR	EE	Tevington, Dunn,NC		Box 7, Madison, NC
Spear, Michael M.	FR	ME	Syme	Te-29334	Box 157, Sunbury,NC
Speight, Edwin P.	FR	CEC	Becton	Te-31002	709 W.Peace,Raleigh, NC
Spence, Ernest P.	FR	GS			RT#2, Lillington,NC
Spence, George B. Jr.	FR	AGY	Owen	Te-29334	RT#1, Pink Hill,NC
Spence, James T.	FR	MEA	Becton	Te-29387	Swan Quarter, NC
Spencer, Roger A.	FR	AED	Tucker	Te-29186	Lexington, NC
Spencer, Thomas D.	FR	IA	Tucker	Te-27050	RFD#3, Tarboro, NC
Spiers, Jos. Knight	SO	MEA	Phi Kappa Tau		Miami, Fla.
Spinello, Anthony G.	SO	EE	Syme		Forest Hill,NY
*Spink, Wm. Thomas	GR	ENT	UK 42, Vetville	Te-29297	RT#3, Box 324,Wilmington,NC
Spits, Leonard	SO	TX	Turlington		2502 Mayview,Raleigh,NC
Spivey, Christopher B.	FR	ME	Bagwell	Te-33417	Box 294,Chadbourn,NC
Spivey, Edward L. Jr.	FR	IA			Garner, NC
Spivey, Ronald C.	FR	AED	Syme	Te-26861	
Spivey, Walter H.	SR	IA	203 Groveland		

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Spooner, Wm. E.	BO	CHE	Tucker		Wilmington, NC
Sprinkle, John A. Jr.	SO	EE	Turlington		RT#1, Winston-Salem, NC
Sprisman, Lawrence J.	JR	TX	304 E. Park	Te-30454	Charlotte, NC
*Spruill, David G.	SR	AI	RT#1 Cary, NC	Te-43756	Columbia, NC
*Spyhalaki, Edward J.	GR	ENT	2300 McMullan Cir.	Te-44608	2300 McMullan Cir., Raleigh, NC
*Stadler, Thomas R.	JR	ME	404 Polk		RT#2, Box 13, Elon College, NC
Stainback, Wm. C.	FR	CHE	Syme		RT#1, Youngsville, NC
Stainback, Wm. Loren	JR	ME	Watauga		Box 212, Henderson, NC
*Stalkidis, Vars!			804 N. Blount		Athens, Greece
Stallings, David W.	FM	MEA	Tucker		Thomasville, NC
Stallings, Donald	SO	MEA	Becton	Te-29256	Maysville, NC
Stallings, Wyatt, R.	SR	IA			Pinetops, NC
Staloup, Wm. Eugene	FR	CE	Watauga	Te-29132	Brasstown, NC
Stamey, Arthur W. Jr.	JR	FE	1616 Hillsboro	Te-35281	High Point, NC
Stancil, Wm. Daniel	JR	IA	Becton	Te-29256	Rocky Mount, NC
*Stanaland, Walter D.	JR	EE	2820 Everett	Te-46129	Shallotte, NC
Stanfield, Henry V.	SR	ME	Berry		RT#2, Brown Summit, NC
Stanford, Alvin M.	SR	AGY	725 W. Morgan	Te-26774	RT#2, Beauville, NC
Stanford, Cary L.	FR	EE	Owen	Te-49836	Box 402, Sylva, NC
Stanley, Bobby Neal	SO	AG	Tucker		RT#1, Box 3, Clarendon, NC
Stanley, Wm. F.	FR	CHE	Bagwell		1906 West Rd., Kinston, NC
Stancil, James A.	FR	EE	Tucker	Te-29363	Box 96, Hoffman, NC
Stanton, John E.	PE		Tucker	Te-29387	Carnegie, Pa.
Starling, Bobby Lee	SO	EE	Syme		RT#1, Union Grove, NC
*Starnes, Alvin B.					2801 Clarendon, Raleigh, NC
*Starr, Hal Eugene	JK	EE	28D, Vetville		32-34 NW, Hickory, NC
Steed, Joe David	JR	AED	Owen		Candor, NC
Steele, Garland F.	FR	ME	Syme	Te-29222	Gibsonville, NC
*Steele, Henry C.	JR	EE	3106 Douglas	Te-46150	3106 Douglas, Raleigh, NC
Steele, Jack E. Jr.	SR	IA	Alexander	Te-29257	
Stedman, Max N. Jr.	SR	TX	2512 Clark	Te-24843	Hickory, NC
Stegall, Luther B.	SO	CE	Owen		RT#1, Warrenton, NC
Steinacher, Julio M.	FR	E	Tucker	Te-29367	Charlotte, NC
Steinback, Roger K.	JR	PPT	Tucker		Franklin, Va.
*Steinberg, Raymond H.	JR	CEC	2423 Greenway	Te-42093	Chattanooga, Tenn.
Steinbern, Jos. A.	SO	DS	RT#1, Cary, NC		RT#1, Cary, NC
Stephens, Gerald C.	FR	IE	Alexander		RT#2, Liberty, NC
Stephens, James A.					RT#1, Cary, NC
Stephens Paul M.	SO	CEC	Becton	Te-29261	Rocky Mount, NC
Stephens, Milton J. Jr.	JR	NE	Owen	Te-29115	Erwin, NC
*Stephenson, Alton P.					RT#2, Raleigh, NC
Stephenson, Bobbie Joe					Charlotte, NC
Stephenson, Charles W.	JR	TX	7 Enterprise	Te-40435	110 Park, Oxford, NC
Stephenson, James G.	FR	CE		Te-24455	2005 Glenwood, Raleigh, NC
Stephenson, John W. Jr.	SR	NE		Te-27630	405 W. Aycock, Raleigh, NC
Steppe, Kenneth W.	FR	POR	Bagwell	Te-49151	Lynchburg, Va.
*Stephenson, Haney Don	JR	SR			Varina, NC
Stephenson, Leonidas D. Jr.	SO	NE	714 Nash	Te-38837	714 Nash, Raleigh, NC
Stephenson, Robert R.	JR	IE	2509 Beachridge	Te-27796	2509 Beachridge, Raleigh, NC
*Sterken, John G.			1051 Nichols Dr.		1051 Nichols Dr., Raleigh, NC
Sternberg, Ernest Max	SR	NE	Turlington		
*Stevens, Raymond H.	SR	FE	3037 Lewis Farm	Te-46133	3037 Lewis Farm, Raleigh, NC
*Stevens, Wilbur N.	SR	POM	10B, Vetville		Sanford, NC
Stevens, Wm. E.	FR	CE	1416 Dixie Trail	Te-33733	1416 Dixie Trail, Raleigh, NC
Stevens, Larry	FR	NE	Owen		Winston-Salem, NC
Stevens, Thomas B. Jr.	FR	CEC	Owen		509 E. S., Erwin, NC
Stevenson, James C.	SR	POM	Tucker	Te-29437	Clemson, S.C.
Stevenson, James McM.	JO	ARC	Owen	Te-29412	Box 514, Henderson, NC
Stewart, Charles Lee	FR	CE	Bagwell		Winston-Salem, NC
*Stewart, Harold B.	FR	ME			2304 VanDyke, Raleigh, NC
*Stewart, James E.	FR	CE			506 Lansing, Raleigh, NC
*Stewart, Paul H.	JR	GEE	2820 Everett,	Te-44987	Box 491, Spruce Pine, NC
Stickney, Richard H.	JR	ARC			226 Forest Hill, Asheville, NC
Still, Garland E. Sr.	SR	AED	Watauga		Kings, Mtn. NC
Stinnett, Charles N.	SO	ME	Bagwell		Box 755, Canton, NC
*Stirewalt, Glenn E.	SO	EE	2319 Grant		Box 326, China Grove, NC
Stitzel, John T.	FR	MEA	Bagwell	Te-49151	Havelock, NC
*Stocks, Wm. H.	CE		10H, Vetville	Te-47870	Leaksville, NC
Stoffregen, Clifton	SO	POM		Te-37437	RFD#1, Raleigh, NC
Stone, Floyd A.	SR	CE	32H, Vetville		25 Orange, Asheville, NC
Stone, Gerald D.	JR	ME	Tucker	Te-29323	Wilmington, NC
*Stone, Paul S.	JR	AED	29D, Vetville	Te-24305	RT#1, Louisburg, NC
Stone, Roy S.	JR	EE	Welch		RT#4, Box 47, Him Point, NC
Stone, Richard P.					RT#6, Box 609, Charlotte, NC
Story, James A.	SO	EE	Tucker	Te-29387	Lenoir, NC
Stotesberry, Ralph B.	FR	E	Bagwell	Te-49151	RT#2, Chester, Va.
Stott, Charles N.	SO	SR	Owen	Te-29464	Wendell, NC
Stout, Kenneth F.	JR	TX	Alexander		Asheboro, NC
*Stout, Roy G.	JR	AGC	2325 Grant		Copen, W. Va.
Stout, Stephen E.	SO	CHE			RT#4, Box 37, Durham, NC
Stover, Richard D.	JR	CHE	2610 Vanderbilt	Te-29323	308 Davis Park, Gastonia, NC
Stradley, Francis B.	SO	FR	Tucker	Te-34054	Asheville, NC
Strader, Emerson N.	FR	AG	3712 Bellevue	Te-29323	Box 62, Ruffin, NC
Stradley, Thomas F.	SR	ME	Tucker	Te-29268	504 Bigham, Pittsburg, Pa.
Strange, Rice S.	SR	FE	2414 Clark		Danville, Va.
Strauss, Franklin	JR	TX	119 Hawthorne		Laureton, NY
*Street, Fred	JR	AT			412 Church, Pungay Springs, NC
Strickland, Percy L. Jr.			2714 Clark		RT#1, Dunn, NC
*Strider, David Lewis			UK 37, Vetville		UK 37, Vetville, Raleigh, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Strobel, Roger Wm.	SO	TX		Te-38058	1306 B-nbur,Raleigh,NC
Strocher, Bobby Lee	SR	HRT	Cary, NC	Te-32492	Cary, NC
Strothers, Russel C.	SR	EE		Te-49586	RT#1, Cary, NC
Stroud, Meginda Lee	SR	AGY	2720 Vanderbilt	Te-28919	RT#4, Box 48,Kinston, NC
Stroup, Daniel B.	FR	AG	Tucker	Te-29312	P.O. box 34, Waco, NC
Stroupe, Michael A.	FR	EE	Tucker	Te-29186	RT#1, Bessemer City,NC
Strum, Wm. Lee	JR	ME	Owen		RT#3, Box 12, Rocky Mount,NC
Struszeski, Edmund J.Jr.	GR	CE	Gold		Patchogue, L.I.NY
*Stuart, Karl D.	JH	ARC	13 Glenwood	Te-23560	Raleigh, NC
*Stuart, Ray T.	SO	CEC	3918 Sherman	Te-49279	3918 Sherman,Raleigh,NC
Sturgill, Jack C.	SO	FOR	Turlington	Te-22598	Norton, Va.
Su Kuang Chi			205 Ashe		Taiwan, Formosa
*Sucar, Aida S.		GS	1718 Hillsboro		1718 Hillsboro,Raleigh,NC
*Sucar, Fuhed	GR	NE	1718 Hillsboro		Gto, Mexico
Succo, John A.	GR	CHE	2316 Hillsboro	Te-45211	Staten Island,NY
Sugg, Benjamin M. Jr.	FR	CE	Syme	Te-29222	213 W. Lenoir,Kinston,NC
*Sugg, John D.	SO	AED	317 Meridith	Te-43885	Snow Hill, NC
*Sugg, Thomas	GR	AED	Syme		RT#2, New Bern, NC
*Suggs, Charles W.	GR	AGE			718 Rosemont,Raleigh,NC
Sullins, Jess A.	SO	CE	Syme		Blittmore, NC
Sullivan, Daniel	FR	EE	Owen	Te-29410	Wrightsville Beach, NC
Sullivan, Gene A.	FR	DM	Owen	Te-34281	RT#3, Selma, NC
*Sullivan Jack H.	SO	MEA	RT#3, Raleigh		RT#3, Raleigh, NC
Sullivan, Robert E.	JR	NE	Syme	Te-29334	610 S.Main,Newton, NC
*Summer, Thomas L.	FR	FOR	Becton		Cherryville, NC
Summerlin, Lyman E.	SO	ME	Becton	Te-29256	Box 249,Jamestown, NC
Summers, James E. Jr.	SO	CE	Becton	Te-46094	Apple St.,Gibsonville, NC
Summerville, Kenneth O.	JR	FCM	2100 Hillsboro		RT#5,Box 578,Charlotte, NC
*Summerville, Wm.K.	JR	EE		Te-29150	2817 Wade, Raleigh,NC
Sumner, Paul J.	FR	EE	Syme	Te-29150	RT#2, Randleman, NC
Sumner, Wiley E.	SO	AGE	Bagwell	Te-29412	Star Rt. Wpnway, NC
Sutherland, Gary E.	SR	ARC	Becton		26 Warlick,Jacksonville,NC
Sutherland, James A.	JR	FCM	1710 Hillsboro	Te-42001	Statesville,NC
Sutherland, Lawrence C.	SR	AI	Welch		RFD, Newport, NC
Sutton, Albert C.	FR	AG	Owen		Asheville, NC
Sutton, Charles J.	SO	AED	Turlington	Te-49271	RT#2, Franklin, NC
*Sutton, Donald M.	JR	WGM	318 Shepherd	Te-28382	P.O. Box 1734,Charlotte, NC
Sutton, Glenn H.	JR	MEA	700 E. WhitakerMill	Te-35795	700 E. Whitaker Mill,Raleigh,NC
Sutton, Hubbard M.	FR	EE	Tucker	Te-49739	RT#3, Newton Grove,NC
*Sutton, Michael D.	JR	EE	28H,Vetville	Te-35437	Kinston, NC
Swain, Joe Terry	SO	EE	Tucker	Te-29323	RT#6, Winston-Salem,NC
Swain, Alfred E.	FR	ARC	Owen	Te-29464	Winston-Salem,NC
Swan, Clement J.	SR	NE	8A,Vetville	Te-22509	2903 Sussex,Pittsburg,Pa.
*Swann, Jos. G.	FR	AGE	Pine Lake Trailer		RT#1, Statesville,NC
*Swann, Paschal W.	SO	CE	1151 Stanhope		RT#4, Statesville,NC
Swain, Charles K.	JR	FCM	Becton	Te-29261	Roper, NC
Swain, Robert W.	JR	AI	Alexander		Southort, NC
*Swann, Marshall N.	FR	CHE	Montgomery St.		RT#1, Box 204,Rockingham,NC
Swanson, Oliver N.	FR	EE	Owen		Pilot Mtn., NC.
Swaringer, Charles E.	SR	IA	Bagwell		Pinehurst, NC
Swaringen, David Leroy	SO	EE	Owen	Te-29464	326 Ridge,Albemarle,NC
Sweats, Jerry O.	SO	ME	Becton		Kannapolis, NC
Swicegood, James T.	FR	TX	Tucker	Te-29387	Lexington,NC
*Swicegood, Kenneth T.	JR	EE	33B,Vetville	Te-41501	Box 145, Cleveland, NC
*Swicegood, Ursula R.	JR	GS	33B, Vetville	Te-41501	Box 145,Cleveland, NC
Swidler, Sidney	SR	FC	202 Fourth	Te-20267	Birmingham, Mich.
Swindell, Winfield S.	SO	EE	Owen	Te-49836	1500 Hillsboro,Raleigh,NC
*Swing, James E.	JR	NE	Tucker	Te-49254	RT#3, Box D6,Gaffney,SC
Swofford, Doyle P.	JR	TX	2402 Hillsboro		Greensboro, NC
Syal, Ahmed Khan	SR	TX	Tucker		W. Pakistan
Sykes, Glenn T.	FR	NE	Tucker		Leaksville,NC
Sykes, Grady H.	JR	IE	2609 Clark	Te-41384	Charlotte, NC
*Sykes, James B.	JR	CEC	30G,Vetville	Te-33764	Wallace, NC
Sykes, Paul M.	JR	CHE	2513 Clark	Te-20268	919 Holladay,Portsmouth,Va.
Sylvant, Charles L.	FR	CHE	Becton	Te-29256	Stedman, NC
Sulvester, Pedro E.		TC			320G Hillsboro,Raleigh, NC
Sxuchan, John J.	SR	IA	Bagwell	Te-29131	Phoenixville, Pa.
Tabibzadeh, Fariborz A.	SO	MEA	Alexander		Tehran, Iran
Tabor, Christopher A.	SO	FCM	Tucker		Baltimore, Md.
Talamas, Alfonso T.	FR	TX	Tucker		Coahuila,Mexico
Talbert, Larry M.	JR	ME	Watauga	Te-29132	Albemarle, NC
Talbot, Graham M.	JR	ME	Owen		Wallace, NC
*Talley, James M.	FR	LA			308 N.4th.Hopewell, Va.
*Talley, Steve K.	SO	EE	116 Forest Rd.	Te-32406	RT#5,Box 214,Greensboro,NC
*Talley, Thomas H.	SR	ABC	2618 Wade	Te-30470	518 Junction,Mt. Airy,NC
*Talley, Richard W.	FR	AG	2202 Hillsboro	Te-40114	RT#1, Walkerton, NC
Tan, Tin Chiao		TX	Gold	Te-29263	Manila, Philippines
Tanen, Robert J.			130 Hawthorne	Te-47325	2860 Ocean,Brooklyn,NY
Tanner, Charles A.		PPT	Bagwell	Te-49151	Piney River, Va.
*Tanner, James T.					2953 Glenwood,Raleigh,NC
Tanner, Mattathias M.					425 Wat.Wake Forest,NC
Tanner, Richard M.	JR	TX	Owen	Te-29437	Yonkers, NY
Tapp, James DeWitt	GR	EE	21 Enterprise		Raeford, NC
Tardif, Gilbert	GR	EE	407 Westover Park		Saint-Albert P.Q. Canada
Tardugno, Jos. M.	JR	EE	Alexander		Wilmington, NC
Tarquiniode, Souza A.	2R		1816 Park Dr.	Te-23698	Salvador-Bahia, Brazil
Tate, Charles W.	FR	EE	Alexander	Te-49746	Fayetteville,NC

NAME	TR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Tate, Clarence G. Jr.	JR	CE	307 Fourth		156 N. Union, Concord, NC
Tate, Russell	SR	AI	708 Hillsboro		Box 1181, Hendersonville, NC
*Tatum, Edgar F.	SR	ME	1871 W. Smallwood	Te-35465	Moultrie, Ga.
*Tatum, Sterling S.	FR	ME	Owen	Te-29252	Charlotte, NC
*Taylor, Halph P.	SR	FOM	702 W. Morgan	Te-42087	Aulander, NC
*Taylor, Byron S.	FR	AEI	Syme	Te-29421	Box 74, Dublin, NC
*Taylor, David R.	SO	CE	214 New Bern	Te-20469	RT#2, Zebulon, NC
Taylor, Earl W.	SR	ARC	10 Enterprise		Maple, NC
*Taylor, Frank W.	JR	ME	1508 Frank	Te-29110	1508 Frank, Raleigh, NC
Taylor, George C. O.	FR	MEA	Tucker	Te-29367	Rocky Mount, NC
Taylor, Henry Joe	SR	ME	3205 Hillsboro	Te-36901	Charlotte, NC
Taylor, Howard L.	JR	TX	Tucker		121 Michigan, Spindale, NC
*Taylor, Jack	GR	PP	UK 21, Vetville		UK21, Vetville, Raleigh, NC
Taylor, James C.	FR	AG	Tucker		211 W. 4th, Gastonia, NC
Taylor, James Lee	FR	SE	Owen		RFD#3, Candler, NC
Taylor, John B.	SO	GEE	Watauga		Yanceyville, NC
Taylor, Kenneth R.	FR	CE	403 N. Wilmington	Te-25137	Box 163, Faison, NC
Taylor, Larry H.	SO	ME	2302 Hillsboro	Te-22741	Marion, NC
Taylor, Larry Joe	FR	ME	Becton	RT#1, Denton, NC	
Taylor, Marvin E.	FR	MEA	Bagwell	Te-49151	Smithfield, NC
Taylor, Maxine E.					Box 218, Cary, NC
*Taylor, Rodney E.	JR	IE		Te-26511	224 Woodburn, Raleigh, NC
*Taylor, Samuel A.	SR	FOM			35 Bagwell, Raleigh, NC
Taylor, Walter G.	FR	MEA	Alexander	Te-29257	RT#4, Box 14, Lenoir, NC
Taylor, Wm. Noel	FR	ME	Owen	Te-29252	RT#2, Pikeville, NC
Teague, Alan L.	FR	DN	Becton	Te-29261	Asheville, NC
Teague, Bobby W.	FR	AG	Tucker	Te-29186	Franklin, NC
Teague, Francis C.	JR	IRR	11YMCA	Te-27184	RFD#2, Liberty, NC
Teague, John V.	JR	DM	2100 Hillsboro	Te-46094	RFD#2, Guilford College, NC
Teague, Richard A.	SR	ME	325 Shepherd	Te-21072	Greensboro, NC
Teal, Fred T. Jr.	SR	ME	3414 Hillsboro	Te-34808	Wadesboro, NC
Teasley, R. Bryce	FR	FOR	Tucker		Knoxville, Tenn.
Teasley, Ralph C.	JR	EE	Becton		RFD#5, Durham, NC
Tedder, Dewey R.	SO	AGE			RFD#2, Clarkton, NC
Telfair, Alexander A.					3131 Sussex Rd., Raleigh, NC
Temple, Paul D.	JR	AGP	2601 Clark	Te-28631	Salisbury, NC
Templeton, Frank G. Jr.	FR	CEC	Tucker	Te-29312	Box 486, Charlotte, NC
*Templeton, Roy L.	JR	EE	29F, Vetville		301 N. Rose, Kannapolis, NC
*Terrel, Charles W.		NE	1404 Crest Rd.	Te-40274	
*Terrel John W.	SR	NE	Becton	Te-29334	
Terry, Wm. James Jr.	JR	TX	2504 Vanderbilt		207 W. 6th, Gastonia, NC
Terzi, Zain-Abidin Hassan	SR	FOM	Box 5798 State		Kirkuk, Iraq
*Testerman, Robert D.	JR	AG	Owen		Burlington, NC
Tessler, Ann P.					2305 Churchill, Raleigh, NC
Tessler, Otto					2305 Churchill, Raleigh, NC
Tetterton, John M.	SO	CEC	Becton		Box 297, Bethel, NC
*Tetterton, Larry E.	JR	AEI	212 S. Dawson	Te-25557	RT#3, Bethel, NC
Tetterton, Milton D. Jr.	JR	EE	Berry	Te-29363	711 Traver, S. Boston, Va.
Tew, Jos. Willie	JR	EE	Turlington		Newland, NC
Thackston, Percy L.D.	JR	HAC	Kappa Sigma House	Te-30671	Spartanburg, S.C.
*Tharp, Kenneth J.					2610 Acadia, Durham, NC
Tharrington, Elbert D.	FR	OME	Becton	Te-29256	RFD#3, Rocky Mount, NC
Tharrington, Herman R. Jr.	FR	EE	2408 Van Dyke	Te-32897	Box 5, Bunn, NC
Tharrington, Owen K. Jr.	SO	CEC	1720 Hillsboro		310 Dabney, Henderson, NC
Tharrington, Ronnie O.	SO	AGY	2100 Hillsboro	Te-46094	Louisburg, NC
Tharrington, Tommie H.	SO	AGY	2100 Hillsboro	Te-46094	RT#3, Louisburg, NC
Theodoridis, Dimitrios B.	JR	TX	Owen		Athens, Greece
Thigpen, Jacob J.	JR	PPT	Tucker		Dudley, NC
Thigpen, Maurice E.					RFD#4, Mt. Olive, NC
Thomas, Peter M.	SO	TY	222 Hillcrest	Te-23429	Fitchburg, Mass.
Thomas, David W. Jr.	FR	ME	Watauga	Te-29132	34 Monroe, Asheville, NC
*Thomas, Dorothy P.		GS		Te-42505	1010 Seward, Raleigh, NC
Thomas, Grady K.	FR	ME	Owen		P.O. Box 534, Landis, NC
*Thomas Grant W.	GR	AGY	Williams		990 Wilmington, Raleigh, NC
*Thomas, Jack B.	SO	IRR	912 Harp Terrace		414 Sunset, Rocky Mount, NC
Thomas, James E. Jr.	SO	ME	904 Vance	Te-20477	904 Vance, Raleigh, NC
Thomas, James K.	SR	IE	Turlington	Te-29297	RT#2, Box 22, High Point, NC
Thomas, James Jos.	SO	DM	Berry		1815 Grove, Greensboro, NC
Thomas, Jimmie B.	FR	CE	Syme	Te-29150	Salisbury, NC
*Thomas, John E. Jr.	JR	TX			14 Malden Lane, Raleigh, NC
Thomas, Johnnie D.	FR	CNE	Bagwell	Te-49151	RT#7, Box 247, Sanford, NC
*Thomas, Karyanil			Gold		India
Thomas, Lowell P.	FR	EE	Owen	Te-29252	Box 765, Goldston, NC
Thomas, Walter C. Jr.	SR	IE	203 Fourth	Te-29159	Charlotte, NC
Thomas, Wayne W.					Center, Apex, NC
Thomas, Wm. W.	FR	AG	Bagwell	Te-29131	RT#4, Box 71, Mockingham, NC
*Thomason, George L.	JR	MEA	1911 Clark	Te-36375	Ft. Bragg, NC
*Thomason, James B. Jr.	SO	EE	10 Enterprise		10 Enterprise, Raleigh, NC
Thomason, Worth B.	FR	TX	Syme		RFD#6, Lexington, NC
Thompson, Allan A.	FR	CE	Turlington	Te-49279	Rutherfordton, NC
Thompson, Delton R.	SO	TC	Tucker		402 Vance, Salisbury, NC
Thompson, Dewey W.	FR	AG	Bagwell	Te-29412	RT#1, Box 262, Rockingham, NC
*Thompson, Dewitt C.					204 Linden, Raleigh, NC
Thompson, Donald M.	JR	FOM	125 Hawthorne	Te-21183	110 N. Liberty, Gastonia, NC
Thompson, Earl B.	FR	MEA	Alexander	Te-49746	Box 408, Lenoir, NC
Thompson, Edward H.	FR	MEA	Tucker	Te-29312	Shelby, NC
*Thompson, Eugene E.	JR	IE	1702 Davis	Te-27843	1702 Davis, Raleigh, NC
Thomas, Farris M.	JR	CE	Turlington		Box 2541, Gastonia, NC
Thompson, Herbert S. Jr.	JR	EE	Owen	Te-29410	Charlotte, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Thompson, James B.	JR	MEA	2513 Clark	Te-20268	New Bern, NC
*Thompson, Jessie L.	JR	EE	77P.Vetville		RT#3, Selma, NC
Thompson, John R.	SO	PPR	324 Park	Te-25670	80 28th. NW, Hickory, NC
Thompson, Melvin G.	FR	EE	Syme		Elkin, NC
Thompson, Robert A.	SR	CHE	Turlington	Te-49279	Box 408, Lenoir, NC
*Thompson, Robert W.	SR	CE	112 Cox Apt.3	Te-41996	1100 Dover, Greensboro, NC
*Thompson, Ronald L.	SO	EE	425 Morrison	Te-25529	Laurinburg, NC
Thompson, Ronald W.	SO	DN	Becton	Te-29334	Lumberton, NC
Thompson, Victor P.	SR	CE	Owen	Te-29252	RT#4, Box872, Morganton, NC
*Thompson, Warren J.	GR	WT	Box 5032 State		Crystal Springs, Miss
*Thompson, Willie Lee	SR	HAC	425 Morrison	Te-25364	405 Biggs, Laurinburg, NC
*Thompson, Wm. Smith	GR	AGE	3512 Leonard	Te-38200	RT#5, Goldsboro, NC
*Thorbjornsen, Evin	SO	CE	Tucker		1251 Woodburn, Raleigh, NC
*Thornburg, Barry J.	SO	NE	3215 Merriman	Te-20632	Greensboro, NC
*Thornburg, Clarence O.JR	SO	EE	Owen	Te-29464	Dallas, NC
Thornburg, Robert L.	SR	FGM			2321 Leroy, Gastonia, NC
Thorne, Francis L.	SR	AGY	Gold		Fort Foote, Md.
Thorne, George F.	GR	AGY	Gold		RT#1, Box 249, Wilson, NC
*Thorne, James E.					507 W. Wilson, Farmville, NC
Thorne, Maynard G.	PR	EE	1605 Van Dyke	Te-43041	Jacksonville, Fla.
*Thornton, Charles B.	SR	CE	P.C. Box6343, 5Pts.	Te-22593	Verona, NJ
Thorp, Erich Carl.	JR	FGM	Tucker		2806 Truitt, Greensboro, NC
Thorpe, David A.	SR	CE	1425 Cursman		Covina, Calif.
Thorup, Jim T.	GR	AGY	2714 Rosedale		Covina, Calif.
Thorup, Richard M.	GR	AGY	2714 Rosedale		Rocky Mount, NC
Threott, Philip H.	FR	HAC	Becton	Te-29372	Rocky Mount, NC
Thrower, Warner L.	SR	IA	Becton		Brooklyn, NY
Thum, Seymour,	JR	IE	130 Hawthorne		Chapel Hill, NC
*Thurston, Fredrick L.	GR	EE	1853 W.Smallwood	Te-24196	400 Laurel Hill, Chapel Hill, NC
Thurstone, Robert L.	GR	EE	400 Laurel Hill		Oncida, Tenn.
*Tibbals, Edward G.			1218 Chaney		RT#4, Mebane, NC
Tickle, Donald R.		EE	Tucker		Baltimore, Md.
Tighe, Richard C.	SR	FOR	EAE	Te-34808	Weldon, NC
Tilghman, Marion T.			1712 Park Dr.	Te-20472	402 Horne, Raleigh, NC
*Tillery, Clarence A. Jr.	FR	IE	402 Horne	Te-40848	Manteo, NC
*Tillett, Jack L.	FR	MEA	Syme	Te-29288	RT#1, Timberlake, NC
Tillett, Wm. P.	SO	ME	211 Groveland	Te-26347	Westfield, N.C.
Tilley, Alton G.	SO	CHE	Owen		10A Montgomery, Raleigh, NC
*Tilley, Bruce N.	Te	EE		Te-38062	995 Washington Ter, Raleigh, NC
*Tilley, Jack P.	JR	AED			Greensboro, NC
Tillman, Linton A.	SO	SEE	Tucker		College, Oxford, NC
Tillotson, Curtiss C.	SO	CE	Tucker		New Bern, NC
*Tillotson, George M.	JR	TX	Berry		Box 384, Mars Hill, NC
Tilson, Leonard G.	SO	AGC	2708 Barmettler	Te-48105	Burnsville, NC
Tilson, Robert R.	JR	ME	B-gwell	Te-24003	Winston-Salem, NC
*Todd, Billie R.	JR	MEA	2100 Milburnie	Te-36358	Box 29, Chapel Hill, NC
Todd, Robert B.	SO	ME	L Stadium	Te-49803	Gastonia, NC
Todd, Wm. B. Jr.	FR	EE	Owen	Te-29410	Box 91, Brownsville, Pa.
Tokar, Francis N.	JR	HCC	Becton	Te-29372	Box 305, Cooleemee, NC
Tokarz, Paul A.	FR	ARC	Alexander		3151 Stanhope, Raleigh, NC
*Tola, Peter T.	SO	IA	3151 Stanhope		Cedar Grove, NC
Tolar, John W.	FR	TX	Syme	Te-29150	Greensboro, NC
Tolar, Thomas S. 3rd.	SO	TX	1508 Hillsboro	Te-26153	417 Peachtree, Asheville, NC
Tolen, Robert C.	FR	NE	Becton		Hickory, NC
Tomlin, Donald D. Jr.	SO	EPY	23 Stadium	Te-49803	1613 Beaver Dam, Raleigh, NC
*Tommerdahl, James S.					RT#1, Mooresboro, NC
Toney, Carl W.	JR	AGE	Syme	Te-29222	RT#1, Mooresboro, NC
Toney, Fred Jr.	FR	EE	Syme	Te-29222	RT#1, Mooresboro, NC
Toney, Lewis C.	SR	CHE	Syme	Te-29222	RT#1, Mooresboro, NC
*Tonn, Kenneth A.	SR	FGM	Bagwell		Cleveland, Ohio
Torrence, David L.	JR	FOR			RT#1, Davidson, NC
*Torrence, James R.	SO	MEA	927 Tower	Te-22969	Salisbury, NC
Torres, Hubon D.	JR	IE		Te-24912	708 Chamberlain, Raleigh, NC
*Tosto, Edgar P.	FR	EE			9 W. Jones, Raleigh, NC
*Towell, Robert H.	GR	ME	15 Shelton Apts.		Kansas City, Mo.
Townsend, Clarence W.	FR	FGC	26231 Oberlin Rd.	Te-42441	Lumberton, NC
Townsend, Frank W.	FR	AGP	21 Enterprise	Te-27840	RT#5, Durham, NC
Townsend, Samuel P.	SO	EE		Te-38370	RT#5, Raleigh, NC
Townsend, Wm. L.	JR	DH	2718 Clark	Te-26451	Manquin, Va.
Traumuller, Martin H.	SR	TX	Welch		166 Edgemont, Teaneck, NJ
Travis, Wm. A. Jr.	JR	ARC	224 Purchess	Te-27474	Box 347, Weldon, NC
Traylor, Robert W.			Ogen		Norlina, NC
*Traynham, James C.	FR	AED	117 W. Park	Te-39880	117 W.Park, Raleigh, NC
*Treece, Ben C.	SO	EE	25B, Vetteville		29B, Vetteville, Raleigh, NC
Treece, Johnny B.	FR	IA	Stadium		
Trent, Wallace L.	FR	WCM	Tucker		Kernersville, NC
Triantaphyllon, Anastasios	PP	Gold			Greece
Triebe, Edward J. Jr.	FR	FOR	Tucker	Te-49739	Kingsport, Tenn.
*Trigo, Luis C. Jr.	JR	CE	1104 Horne		San Juan, Puerto Rico
*Triplett, Oscar E.	FR	EE			8054 Newbern, Raleigh, NC
Tripp, Benjamin A.	GR	EE	207 Fourth	Te-29159	207 E.3rd. Ayden, NC
Tripp, Milton R.	FR	IE	Turlington		Shallotte, NC
Tripp, Wm. L.	JR	ME	2612 Clark	Te-30671	Kinston, NC
*Trivett, Wm. W.	FR	EE			201 S. East, Raleigh, NC
Tretman, Frank B.	SO	AED	Alexander		Haddonfield, NJ
*Trotter, Donald Lee	FR	EE	2705 Newbold		2705 Newbold, Raleigh, NC
Troutman, John W.	FR	NE	Syme	Te-29150	RT#7, Statesville, NC
Troutman, Wm. H.	FR	EE	Bagwell	Te-49151	Box 32, Concord, NC
Trowbridge, Kenard, S. Jr.	IRR		191 Chamberlain	Te-22293	Plymouth, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Truckner, Alton H.	FR	CE	Owen		1722 Murray, Durham, NC
Truitt, Patricia A.	SO	AGP	2609 Clark	Te-41384	Glen Haven, NC
Trunnell, Albert G.	SO	CE		Te-49746	P.O. Box 461, Southport, NC
Tsumas, Paul Wm.	FR	ARC	Bagwell		Statesville, NC
Tucker, Alvin H.	FR	ME	Owen	Te-29252	RT#5, Box 147, Hickory, NC
Tucker, Don B.	SR	AI	11 Maiden Lane	Te-43921	Laurel Springs, NC
Tucker, Harry H.			1910 Glenwood	Te-46501	Winston-Salem, NC
Tucker, Jerry S. Jr.	SO	ME	Owen		Townsville, NC
*Tucker, Robert H.					304 Horne, Raleigh, NC
*Tucker, Robert W.	JR	ME	729 W. Morgan	Te-21667	
*Tucker, Robert W. Jr.					929 St. Mary, Raleigh, NC
*Tucker, Wm. Lee	GR	AI	109 N. Boylan	Te-48690	Finchville, KY.
Tuggle, Paul	SR	HAC	Berry		Kannapolis, NC
Turbyfill, Basil W.	JR	PMW	Tucker	Te-29323	Hickory, NC
Turlington, Wade R.	FR	ME	Becton	Te-29261	Box 206, Jacksonville, NC
Turner, Charles D.	FR	EE	Turlington		Payetteville, NC
Turner, Jack B.	FR	EE	Owen		RT#1, Old Fort, NC
Turner, Marcus S. Jr.	SO	AED	Becton		
Turner, Frank V.					Box 6165, Raleigh, NC
Turner, James H. Jr.	JR	TX	Becton		RT#2, Polkton, NC
Turner, Jerrell M.	SO	NE	Stadium		Laurinburg, NC
*Turner, Jerry M.	JR	LA	102 Horne	Te-48540	Payetteville, NC
Turner, Richard E.	SO	MEA	203 Groveland		RT#2, Wadesboro, NC
*Turner, Robert D.	SR	ARC	108 Horne	Te-45068	Ipwich, Mass.
Turner, Roger B.	SO	EE	Tucker	Te-29388	Gastonia, NC
*Turner, Ronald D.	FR	TX	Tucker		RT#1, Cherryville, NC
Turner, Sam G.	FR	AG	Bagwell		Jackson, NC
Turner, Wilbur H.	FR	ME	Owen	Te-29115	Elisabeth City, NC
Turner, Wm. McNeil	SR	AED	Katarus	Te-29132	RT#1, Yanceyville, NC
*Tussey, Willie G.	JR	AGE	Patterson Hall 220		341 Wilnot Dr., Raleigh, NC
Tutor, Nellie A.	SO	ARC	Becton	Te-21514	2716 Kilgore, Raleigh, NC
Tutterow, James L.	FR	IRR	Becton	Te-29261	Burlington, NC
*Tuttle, David W.	SR	TX	17C, Vetville	Te-46386	227 5th. NE, Hickory, NC
Tuttle, Peter D.	SR	AED	Watauga	Te-29132	Pfafftown, NC
Tuttle, Ronald E.		CE	YMCA	Te-27184	Winston-Salem, NC
Tyndall, LeRoy E.	SO	MEA	14 Stadium	Te-49803	RT#1 Box 199, Kinston, NC
Tyndall, Lloyd A.	SO	AGE	Stadium		RT#6, Box 297, Kinston, NC
Tyndall, Paul E.	SO	TX	1603 Hillsboro		Alberton, NC
Tyson, Anna R.	TC		10 Enterprise	Te-40575	10 Enterprise, Raleigh, NC
Tyson, Bradley Y.	SO	EE	203 Groverland	Te-26861	Wadesboro, NC
*Tyson, Elijah J.	SR	AGE	37E, Vetville		37E, Vetville, Raleigh, NC
Tyson, Martin L. Jr.					RT#1, Cary, NC
Tyson, Robert L.	FR	MEA		Te-32434	34 Dixie Dr., Raleigh, NC
Tyson, Ted H.	SA	CEC	Turlington		1135 Bynum, Wilson, NC
Umphlett, Charlie M.	FR	CE	Syme	Te-29222	Box 142, Hertford, NC
Umstead, Ben L. Jr.	FR	TX	1718 Hillsboro	Te-40451	Durham, NC
Umstead, Willis C.	FR	AGE	Tucker	Te-29388	Garner, NC
Underwood, Edgar M., 3rd.	FR	EE	Owen		301 N. Vance, Sanford, NC
*Underwood, Lehman D.	SR	TX	21D, Vetville	Te-45597	N. 5th, Smithfield, NC
*Underwood, Wm. A.			612 Woodburn	Te-39113	Box 594, Ashboro, NC
*Underwood, Willie E.	SO	ME	1227 Duplin	Te-27134	Waynesville, NC
Unts, James N.	SO	ME	Owen		Box 14, Belmont, NC
Ucharotayan, Sorosath	SR	AGY	109 Oberlin	Te-41547	
*Upchurch, A. B.					204 Ransom, Fuquay, NC
*Upchurch, Henderson C. Jr.	SO	IE	Alexander	Te-29349	RPD#1, Four Oaks, NC
Upchurch, John C.	FR	TX	112 N. Lord Ashley	Te-44357	Raleigh, NC
Upchurch, Thurman H.	SO	HE	C-37 Andrews Lane	Te-41983	Raleigh, NC
*Upton, Elbert	SR	AED	205 Tilden		RT#3, Rutherfordton, NC
*Uribe-Ariasa, Jorge				Te-33406	3200 Hillsboro, Raleigh, NC
Uribe, Carlos V.	SR	TX	P.O. Box 5504 State		Medlin, Colombia
*Ussery, Milton E.	SO	IE	20C, Vetville		20C, Vetville, Raleigh, NC
Ussery, Robert H.	FR	EE	Becton		Rockingham, NC
*Uzzel, Carl T.	FR	EE	407 Stacy	Te-23418	407 Stacey, Raleigh, NC
Vail, James Thomas	FR	FR	Bagwell		509 7th. Spencer, NC
Valentine, Wm. Edison	SO	ARC	Alexander	Te-29349	
*Valenzuela, Jose Luis C.					San Jose, Costa Rica
*Van der Reyden, Dirk	FR	AI	7439 Station B. State		P.O. Box 830, Praetoria, S.A.
Van Derp, Wm.	FR	AI	129 Hillcrest	Te-21352	Pinetown, NC
Van Landingham, Hugh	SR	EE	Becton	Te-29372	1416 Lake, Greensboro, NC
Vance, John D.	JR	AGE	Alexander	Te-29247	Pineola, NC
Vann, Jos McAlpin	FR	NE	Turlington	Te-49279	1930 Plaza, Charlotte, NC
Varon, Jaime		TX	Alexander	Te-29349	Lima, Peru
Vaughn, Peter C.	FR	CE	Tucker	Te-29388	1108 4th. Hartsville, NC
*Vaughn, George W.					15 Glenwood, Raleigh, NC
Vaughn, Walter K. 3rd.	FR	EE	Owen	Te-29142	Henderson, NC
Vaughn, Kenneth E.	SO	AI	Alexander	Te-49746	RT#1, Providence, NC
Vaughn, Vernon A.	SR	EE	1720 Hillsboro	Te-40451	1001 Hampton, Greensboro, NC
Vaughn, Wm. Douglas	FR	AED	Alexander		RT#1, Providence, NC
Vause, Charles A.	JR	MEA	Syme		Rutherfordton, NC
*Veeney, Gerald E.					Apt. Y, Glenwood, Raleigh, NC
Venable, Wm. Donald	SO	EE	Alexander	Te-29257	Winston-Salem, NC
Vennel, Woodrow W. 2nd.	JR	MEA	2714 Dorchester	Te-48386	Salem, Mass.
Venter, Robert R.	JR	CEC	114, Vetville	Te-40157	Wilmington, NC
*Ventrella, Sam					1204 Duplin, Raleigh, NC
*Verbeck, Arthur R.					507 Wayne Dr., Raleigh, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
*Verreault, John F. Jr.	JR	TX	7 Dixie Trail		Valdese, NC
Vestal, Ellie B.		ACC	305 Fourth	Te-29159	Kenansville, NC
Vincelli, Giacomo S.	SO	LA	Fourth		Montreal, P.O. Quebec
Vinson, James R. Jr.	SR	ACC	2100 Hillsboro	Te-46094	RT#3, Burlington, NC
Vinson, Reginald R.	SR	EE	302 Fourth	Te-29159	RT#3, Fritchdale, NC
Vitale, Herbert A.	SO	SED	301 E. Park		New Hyde Park, NY
Vitek, Stephen J.	JR	IRR	Alexander		Lansford, Pa.
*Vogler, Charles McK.	SO	EE	2707 1/2 Vanderbilt	Te-40694	Box 661, Mt. Airy, NC
*Vogler, John P.			277, Vetville		RT#6, Box 661, Mt. Airy, NC
Vogler, Robert A.	SO	ME	Tucker	Te-29323	Winston-Salem, NC
Von Canon, Charles B.	FR	EE	Owen	Te-49836	Box 86, Banner Elk, NC
*Von Canon, Jacob P.	SO	AI			Banner Elk, NC
Von Canon, James E.	FR	PM	Becton	Te-29256	West End, NC
Vorster, Sidney P.	AG	AC	215 Park		Box 303, Paarl, South Africa
Vuncannon, Marion W.	JR	EE	2209 Hope	Te-43244	Gen Del. Ether, NC
Wachob, James C. Jr.	JR	EE	Owen		Morganton, NC
Waddell, Roger J.	FR	ME	Becton	Te-29256	Royal Pines, Arden, NC
Waddell, Robert A.	JR	TX	Becton	Te-29372	Fair Bluff, N.C.
Waddington, John Jr.	SR	TX	Box 5042 State	Te-29531	21 Valley Close, Yonkers, NY
Wade, Bobby B.	SO	EE	Alexander		RT#5, Oxford, NC
Wade, Jacob F. 3rd.	FR	EE	Berry		Wildwood, NC
Wagner, Curtis E.	FR	EE	Watauga		Lake Lure, NC
*Wagner, Harold A.	JR	TX	33d, Vetville	Te-43720	Box 95, Cooleemee, NC
Wagner, Oren H.	SR	ONE	6 Enterprise	Te-24788	RFD#1, Taylorsville, NC
Wagner, Walter R.					219 Park, Raleigh, NC
Wait, Keppel Duane	FR	NE	Owen	Te-29464	Asheville, NC
Watman, Gerald L.	JR	HAC	Becton		Payetteville, NC
*Wakeley, John H.			1213 Dixie Trail	Te-47564	499 Linda, Mansfield, Ohio
Walch, James Wm.	JR	TX	Owen	Te-29115	Claymont, Del.
Walden, Roy A.					Guatemala, C.A.
Walden, Samuel C.	JR	WE	2514 Clark	Te-34522	104 Orange, Tabor City, NC
Waldman, Peter G.	FR	TX	Alexander	Te-29349	Howlett, NY
Walke, Luther E. Jr.	SO	ME	21 Enterprise	Te-27840	Greensboro, NC
Walker, Carl R.	SR	MEA		Te-27106	1116 Parker, Raleigh, NC
*Walker, Charles T. Jr.	SO	FMM	4B, Vetville		Rocky Mount, NC
*Walker, Elwood J.	SO	AED	604 S. Boyland		RFD#1, Albertain, NC
Walker, Herman Lee	JR	EE	Owen	Te-29410	RT#1, Mill Spring, NC
Walker, Glen E.	FR	ME	Alexander	Te-29349	RT#6, Box 22, Morganton, NC
Walker, Grady S.	SO	AC	2209 1/2 Hope	Te-43244	RFD#1, Clyde, NC
Walker, Herman L.	JR	EE	Owen		Mill Spring, NC
Walker, James F.	FR	NE	Tucker	Te-29323	RT#3, Burlington, NC
Walker, Paul Dean	SO	PPT	Owen	Te-29115	1103 Debow, Old Hickory, Tenn.
Walker, Raymond H. Jr.	FR	MEA	Tucker		Sparta, NC
*Walker, Robert M.	SO	CE	30E, Vetville		7 Charles, Asheville, NC
*Walker, Theodore H.			WM. Trailer Park, Cary	Te-45121	Statesville, NC
Walker, Thomas Tim	SO	FCM			Box 86, Clayton, Ohio
Walker, Wm. Delano		FCM	801 Pineland Dr.	Te-41823	Ellenboro, NC
*Walker, Wm. E.					Rocky Mount, NC
*Walker, Wm. Edward			130 Cox, Apt. C.		130 Cox, Apt. C. Raleigh, NC
Wall, Carl Herman	JR	FMM	207 Park		Morganton, NC
Wall, Donald G.	FR	ME	115 Forrest		4501 Lane, Winston-Salem, NC
*Wall, Frederick B.	FR	GEE	2132 Mayview Apts.	Te-28642	Washington, NC
*Wall, Harold J.	JR	ME	12 D Vetville		4501 Lane, Winston-Salem, NC
Wall, John Thomas	SR	ARC	2220 Hillsboro	Te-42986	1782 Webb, Burlington, NC
*Wallace, Ray F.		AED			Micro, NC
Wallace, Hoyt A.	FR	NE	Syme	Te-29288	Box 548, Newoot, NC
Wallace, James E.	SR	MEA	Owen		Miami, Fla.
Wallace, Robert E.	SO	MEA	Owen	Te-29115	Miami, Fla.
Wallace, Thomas C.	SO	AI	Turlington	Te-29297	Pedlar Mills, Va.
*Wallace, Thomas E. Jr.					2806 Eastway, Charlotte, NC
Waller, Donald R.	FR	NE	Owen	Te-29464	RT#1, Pfafftown, NC
Waller, Jerry M.	SO	NE	108 Pogue	Te-43930	504 Main, Hamlet, NC
Walsh, James Leroy	SO	EE	Watauga		Marble, NC
Walsh, Ronald L.	FR	CHE	Becton	Te-20372	Statesville, NC
Walters, Luther M.	JR	CHE	Box 3826 Rocky Mount		415 Lexington, Rocky Mount, NC
*Walton, James E.					927 Wilmington Ter, Raleigh, NC
Walton, James L.	FR	IE	Owen		Box 204, Downingtown, Pa.
*Walton, Jay R.	GR	CE	3019 Leonard		3019 Leonard, Raleigh, NC
Walton, John Thomas	SR	HAC	Syme		524 Mitchell, Salisbury, NC
Walter, Lloyd G. Jr.	JR	ARC	1301 Hillsboro		519 Fenton, Charlotte, NC
Walunjar, Wasueeo G.	GR	AGY	109 Oberlin	Te-41547	Nalwadi Wardhi, India
Wang, Fu Tseng	ST	ST	Gold		Chckiang, China
*Ward, Boyd M.	FR	IE	1061 Nichols	Te-43879	High Point, NC
Ward, Carl H.	FR	AG	Bagwell		Nakina, NC
Ward, Bennie Ray	SO	MTE	Syme		204 Church, Elkin, NC
Ward, Daniel D.	SO	TX	600 St. Mary	Te-38678	503 Cleveland, Raleigh, NC
Ward, James E.	SO	ME	Becton	Te-20256	RFD#1, Rose Hill, NC
Ward, James Lonnie	JR	ME	Syme		Badlin, NC
Ward, James O.	FR	CE	Bagwell		1111 S. 3rd, Wilmington, NC
Ward, Noal L.	FR	AED	2226 Hillsboro		Nakina, NC
Ward, Robert Lee Jr.	SR	TC	Becton	Te-29372	Mt. Holly, NC
Ward, Sam Wilson	GR	IPS	2226 Hillsboro	Te-34339	Box 75, Conover, NC
Wardsworth, Robert E.	SO	AED	Bagwell	Te-29412	RT#1, Macclesfield, NC
Warlick, Charles K.	FR	CE	Syme		Polsville, NC
Warlick, Frederick M. Jr.	SO	TC	Owen		319 W. Horah, Salisbury, NC
Warlick, Jimmie P.	SO	MEA	Owen	Te-29464	RT#1, Shelby, NC
Warlick, Jos. Ralph Jr.	SR	CE	Tucker	Te-27161	Box 203, Ooncord, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Warlick, Max Lane	SO	CHE	Old Greenhouse		RT#3, Lawndale, NC
Warlick, Robert B.	SO	EE		Te-44200	S-2, Country Club, Raleigh, NC
Warren, Cary H.	SR	IRR	Becton	Te-29256	Portsmouth, Va.
Warren, David Lee	FR	LA	Owen	Te-29142	Washington, D.C.
Warren, Fredric G.	JR	EE	342, Votville	Te-29438	Box 374, Selma, NC
Warren, Garland G. Jr.	JR	EMA	Syme	Te-29288	210 Rawley, Mt. Airy, NC
Warren, James A.	SO	CE	2 Stadium	Te-49803	Statesville, NC
Warren, James Daniel	SO	PM		Ho-73952	Box 638, Cary, NC
Warren, John H.	FR	AI	Owen		Prospect Hill, NC
Warren, Thomas G.	FR	AC	Tucker	Te-29186	RFD#2, Battleboro, NC
Warren, Tommy C.	SO	ME	Syme		Horse Shoe, NC
Warrick, Clarence W. Jr.	SO	CE			527 S. 5th, Smithfield, NC
Warrick, David P.			132 nd Filmore		RT#1, Box 183, Jackson, NC
Warrick, Guy	SR	IE	W-4 Country Club	Te-45519	W-4, Country Club Homes, Raleigh
Warrick, Woody Jr.	SO	TE			C-09 Holden, Raleigh, NC
Washington, Larry David	SR	AG	120 Hillcrest	Te-26383	1329 Marlborough, Raleigh, NC
Washburn, Joe Dan	SR	AG	192 A Williams		Box 23, Lake Lure, NC
Washburn, James R. Jr.	PR	ARC	Everate Ave. Rundles Apts.		
Washam, Burl J.	JR	AGE	Owen	Te-29115	
Wasserman, Marcos	JR	TX	Turlington	Te-29297	Bogota, Colombia
Waters, Bobby Wayne	FR	EE	Bagwell	Te-29131	Roanoke Rapids, NC
Waters, Earl Wayne	JR	EE	8D, Votville	Te-42132	99 Franklin, Roanoke Rapids, NC
Waters, John E.	FR	FOR	3147 Hillsboro	Te-22138	Haleigh, NC
Waters, Raymano C.	JR	IRR	2006 Smallwood Dr.	Te-22665	Collingswood, NJ
Waters, Richard W.	FR	EE	Bagwell	Te-29412	Roanoke Rapids, NC
Waters, Robert W.	FR	ME	Bagwell		Roanoke Rapids, NC
Waters, Ted L.	JR	CE	Bagwell	Te-49151	1011 Cedar, Roanoke Rapids, NC
Waters, Wilbert J.	FR	FOR	Syme	Te-29288	RT#1, Box 227, Pinetown, NC
Watkins, James P.	FR	AED		Te-38378	RT#5, Haleigh, NC
Watkins, John Wm.	SO	CE	Alexander		RT#1, Rockingham, NC
Watkins, Lawrence E.	SR	HAR	946 Harp Terrace	Te-44018	946 Harp Terrace, Raleigh, NC
Watkins, Roger A.	SO	CE	HT#5, Haleigh, NC	Te-39152	
Watkins, Rupert W.	JR	AGE			Box 263, Fuquay Springs, NC
Watkins, Stanley C.	JR	EE	1217 Kent		1217 Kent Rd., Raleigh, NC
Watson, Charles D.	FR	EE	1500 Senehan St.	Te-21352	Smithfield, NC
Watson, Claude L. Jr.	JR	ME			RT#5, Raleigh, NC
Watson, Harrison B.	FR	E	Tucker	Te-29323	RT#4, Box 710, Charlotte, NC
Watson, Harry Lee	FR	TX	715 Blount	Te-22611	
Watson, James E.	FR	NE	Becton	Te-29256	Box 6, Red Springs, NC
Watson, Gerald J.	FR	NE	1718 Park	Te-21626	1718 Park, Raleigh, NC
Watson, Jesse V.	FR	ME	Tucker	Te-29186	Greensboro, NC
Watson, John A.	SO	CEC	Bagwell		Kannapolis, NC
Watson, Kent E.	FR	LA	Bagwell	Te-44151	Rodanthe, NC
Watson, Larry W.	SO	ME	Tucker	Te-29388	Sanford, NC
Watson, Thomas D.	SR	ME	20 Stadium		RFD#1, Poncore, NC
Watson, Wm. J.	FR	CE	Becton	Te-29256	Fayetteville, NC
Watson, James W.	FR	CE	Welch		Guilford, NC
Watts, Glenn B. Jr.	FR	EE	Owen	Te-29437	RT#2, Box 484, Huntersville, NC
Watts, John E.	SO	ME	Berry		
Waugh, Wm. Henry	FR	AC	Turlington		RT#1, Box 88A, Climax, NC
Waxmunski, Henry L. Jr.	JR	PPT	Tucker		West Point, Va.
Waynick, Howard L.	JR	EE	326 Powell Dr.		326 Powell Dr., Raleigh, NC
Waynick, Jack T.	JR	ME	101 Chamberlain		
Waynick, Robert S.	JR	ME	Syme	Te-29151	106 Franklin, Reidsville, NC
Weant, Marvin E.	FR	EE	Syme		RT#1, Rockwell, NC
Weant, Roy D.	FR	TX	Turlington		RT#1, Box 124, Lenoir, NC
Weatherly, Robert B.	FR	MEA	Becton	Te-29261	Kings Mtn. NC
Weatherly, Robert N.	SO	EE	6 Fennell Lane	Te-22265	504 S. Pine, Rocky Mount, NC
Weaver, Ivan E.	FR	EE	Bagwell	Te-29141	Greensboro, NC
Weaver, James P.	FR	EE	Syme		520 Gardner, Raleigh, NC
Weaver, Jack C.	FR	EE	Syme	Te-24160	RT#1, Liberty, NC
Weaver, Samuel A.	SO	AED	Turlington		Roanoke Rapids, NC
Weavill, Jeffrey W.	SR	LA	Becton		RT#1, Fountain, NC
Webb, Benjamin C.	SR	AG	2226 Hillsboro		Clearwater, Fla.
Webb, Bruce H.	FR	EE	1600 Bickett Blvd.	Te-42926	1600 Bickett Blvd., Raleigh, NC
Webb, Charles D.	FR	EE	Owen	Te-45211	Kings Mtn. NC
Webb, George W. Jr.	FR	IPS	Owen		Shelby, NC
Webb, Richard H.	FR	NE	Tucker		Box 336 Olivia, NC
Webb, Walter H.	FR	NE	Tucker	Te-29387	Cream Ridge, NJ
Webber, Robert C.	FR	IE	Tucker		Box 188, Hick Square, NC
Weber, Andrew J.	FR	CEM	Syme	Te-29297	RT#1, Shanon, NC
Weber, Edgar H.	FR	EE	Turlington		RT#1, Graham, NC
Webster, Henry W.	FR	AC	Owen	Te-29387	Westfield, NJ
Webster, John A.	FR	ARC	Turlington	Te-29192	602 Park, Clinton, NC
Weed, David N.	JR	IRR	Becton	Te-29256	Goldsboro, NC
Weeks, David Bert	JR	EE	Syme		Box 134, Speed, NC
Weeks, Gordon K.	FR	ME	Syme		Lumberton, NC
Weeks, Jos. T.	JR	ME	1720 Hillsboro	Te-40451	Valdese, NC
Weinstein, David F.	JR	ATY	Bagwell		Charlotte, NC
Welf, James L.	SO	CE	Bagwell		Cresskill, NJ
Weir, Thomas H. Jr.	SR	PM	Berry		714 Runnymede, Raleigh, NC
Weisser, Arthur B.	SO	CHE	Turlington		Oxford, NC
Welch, Charles D.	FR	EE	Tucker	Te-49739	High Point, NC
Welch, John T. Jr.	FR	EE	Alexander	Te-29349	Greensboro, NC
Welch, Osmon Kenneth	FR	SO	Tucker		RT#1, Henderson, NC
Welch, Richard V.	FR	PM	H-6 Shelton Apts.		Henderson, NC
Weldon, Kinchan G. Jr.	SO	PM	Owen		22F, Votville, Haleigh, NC
Weldon, Raymond T. Jr.	SO	TX	22F, Votville		
Welfare, Fred G.					

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Welker, Larry W.	JR	ARC	Tucker	Te-29323	Greensboro, NC
*Welles, Emily B.	JR	DN		Te-43219	D3 Country Club Homes, Raleigh
Wellman, George H. Jr.	SO	CHE	2412 Everett	Te-26377	928 Maple, Salisbury, NC
*Wells, David R.	FR	EE	Tucker		Smithfield, NC
*Wells, George E.	SO	AG		Te-24541	White Oak, Henderson, NC
Wells, Virginia Dare	JR	CE	6 Enterprise	Te-24788	Rex Hosp., Raleigh, NC
Wells, Wm. B.	JR	ST	707 Daniels	Te-42007	RFD#3, Canton, NC
*Wells, Wm. T.	JR	MED	Tucker		707 Daniels, Raleigh, NC
Wells, James H. Jr.	SO	EE	Tucker	Te-29388	Lamberton, NC
Wensil, Larry E.	FR	EE	505 Cole		Concord, NC
*Wentz, Charles H.	FR	EE	1537 Dell Hood Dr.	Te-28976	439 E. Pritchard, Asheboro, NC
Wessling, Wolfgang H.	GR	7N	Turlington		Goala, Germany
Wessels, John M.	FR	IA	Turlington	Te-29297	Rockford, Ill.
West, Bruce Lee	FR	IE			Box 303, Mebane, NC
*West, Clyde W.			3016 Farrior Rd.	Te-46837	1714 Bennetts, Raleigh, NC
*West, James W.	FR	EE	Owen		Turkey, NC
West, John Lewis	SO	FOR	Athletic Dept.		RT#1, Planterville, SC
*West, Robert D.	JR	IA	Tucker		Alexandria, Va.
West, Thomas Elam	FR	IE	Owen		RFD#2, Nathalie, Va.
West, Wm. M.	FR	EE	Cary		Greenville, NC
*Westbrook, Jimmy G.	SO	CHE	Baywell	Te-29131	RFD#3, Kinston, NC
Westbrook, Wm. H. L. 3rd.	FR	CHE	Becton	Te-29261	Gumberry, NC
Wester, Alfred L.	FR	CE	Tucker		RT#1, Nashville, NC
Westmoreland, Edwin A.	FR	ME	2405 Clark		Winston-Salem, NC
Westmoreland, Byron C.			1811 Wilshire	Te-26448	1st St., West Point, Va.
*Westmoreland, Grove W.	FR	AG	2210 Hope		RFD#1, Troutman, NC
Westmoreland, Richard P.	JR	EM	Tucker		Thomasville, NC
Weston, Robert F.	SO	FOR	Syme		Williamston, NC
Whaley, Charles J.	SO	CE	Bagwell		Durham, NC
Whaley, Rodolph M. Jr.	JR	HAC	2314 Hillsboro	Te-31406	RT#2, Richland, NC
*Whims, Harold C. Jr.	JR	ME	Alexander	Te-29349	Asheboro, NC
Whisnant, James E.	FR	ME	Box 5691, Raleigh, NC		Morganton, NC
Whitaker, Dallas W.	SO	ME	18F, Vetville		3023 Ivy, Winston-Salem, NC
*Whitaker, Faison Y. Jr.	JR	ME	Alexander		18F, Vetville, Raleigh, NC
Whicker, Gaines L.	SO	NE	3821 Wester Blvd.		Kannapolis, NC
*Whicker, Gene T.	GR	CHE	1709 Pineview	Te-22000	RT#1, Walkertown, NC
*Whitaker, Dewey R.	JR	FOR	UK1, Vetville	Te-23246	Horse Shoe, NC
White, Bennett B.	JR	CE	Becton	Te-29261	Robersonville, NC
White, Charles H.	SR	CE	2506 1/2 Anderson		RT#2, China Grove, NC
*White, Cohen O'Neal	SR	PPT	Pine Lake Trailer		RT#3, Box 80, Windsor, NC
*White, David Boyce	SR	CE	30 Dixie Drive		RT#1, Franklin, NC
*White, Gerald M.	FR	AED	Syme		RT#1, Pittsboro, NC
White, Gerald S.	FR	AED	Syme		RT#1, Youngsville, NC
White, Haywood C.	SO	ARC	1806 Hillsboro		Colerain, NC
White, James F.	SO	IA	1905 Park		Sanford, NC
*White, Jos. M.	SO	EE	Berry		RT#1, Raleigh, NC
White, Kenneth N.	JR	AED	Bagwell		Winston-Salem, NC
White, Lewis H.	JR	FOR	Alexander	Te-29349	Norlina, NC
White, Miles J. Jr.	FR	MEA	Alexander		Box 404, Windsor, NC
White, Ormond C.	FR	ME	2718 Clark		RT#3, Box 157, Windsor, NC
White, Pritchard H.	SR	ME	Box 75 Garner, NC		Winston-Salem, NC
White, Richard C.			Syme	Em-23281	RT#4, Danville, Va.
White, Robert H.	JR	ME	11F, Vetville	Te-49805	Bladenboro, NC
White, Roy S.	JR	SE	Syme	Te-29117	Hamptonville, NC
*White, Jesse W.	FR	ME	1208 Channy Rd.	Te-34758	RT#1, Walkertown, NC
White, Wm. David	JR	ME	Bagwell	Te-29412	Aberdeen, NC
White, Wm. Franklin	JR	ME	Syme		RT#2, Maxton, NC
Whitchurst, Wm. Morgan	JR	ME	1620 Hillsboro		RT#2, Robersonville, NC
Whitchead, Charles E.	FR	TX	Tucker	Te-29387	Winston-Salem, NC
Whitchard, Thomas W.	FR	AG	132 Woodburn	Te-30083	Philadelphia, Pa.
Whitehorst, Kenneth N. Jr.	FR	AG	21B, Vetville	Te-38504	Back Bay, Va.
Whitener, Daniel C.	GR	MTS	21B, Vetville		RT#1, Box 303, Huntersville, NC
*Whitener, Elizabeth M.	SR	NE	Watauga		112 McIver, Greensboro, NC
*Whitener, Herbert L.	SR	NE	512 Pace	Te-22052	112 McIver, Greensboro, NC
*Whitesides, Grier E.	SR	JED	Athletic Dept.		RT#4, Lincolnton, NC
Whitley, Bobbie C.	SR	HBC	Infirmery Bldg.		Raleigh, NC
Whitley, Wm. D.	SO	EE	Tucker	Te-29312	Pinetops, NC
Whitman, Hobart A. 3rd.	SO	EE	Syme	Te-29421	Asheville, NC
Whitt, Richard N.	FR	EE	Tucker		Winston-Salem, NC
*Whittington, Evelyn	JR	EE	Tucker		230 N. Main, Graham, NC
Wicker, Gene H.	JR	CEC	417 S. Boylan		RT#4, Raleigh, NC
*Wicker, Paul J.	JR	EE	Owen		Burlington, NC
Wicker, Russell G.	FR	EE	Dept. of Ag.		RT#1, Cameron, NC
*Wiese, Richard A.	GR		2100 Hillsboro	Te-46094	Greensboro, NC
Wiggins, Talmadge J.	SR	AI	Gold	Te-29263	2550 Glenwood, Raleigh, NC
Wilcox, Merrill	GR	AGY	308 Home	Te-27050	RT#2, Bryson City, NC
Wilder, Bobby Gene	SO	SEC	Everett Ave.	Te-31658	Port Republic, Md.
*Wilder, Hugh B.	JR	CE	RFD#5, Raleigh,		Box 444, Wendell, NC
Wilder, James R.	JR	CE	3109 Hillsboro	Te-35401	RFD#1, Selma, NC
*Wiles, John B.	JR	NE	203 Forest	Te-31347	RFD#5, Raleigh, NC
Wiley, Albert Lee	FR	E	120 1/2 Groveland	Te-38037	RT#1, Box 607, Kannapolis, NC
Wiley, John M.	FR	E	Syme		Box 41, Acme, NC
Willfong, Albert C.	SO	CE	C2, Country Club Homes	Te-48821	River Rd., Washington, NC
*Wilhelm, Wm. R.	JR	AGC	2226 Hillsboro		Claremont, NC
Wilkerson, Maxwood R.	SO	TX	Owen	Te-29142	RT#1, Mt. Ulla, NC
Wilkes, Eddie C.	FR	GER	RT#2, Apex, NC		RT#9, Lexington, NC
Wilkie, Gene A.	SR	IE	29G, Vetville		Box 722, Asheboro, NC
*Wilkie, James H.	SR	IE			RT#2, Apex, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Wilkie, Jack E.	FR	EE	Turlington	Te-42279	655 S.Waldo, Valdese, NC
Wilkins, Davison H.	JR	AED	Becton	Te-29256	Linden, NC
Wilkins, Donald M.	JR	IPS	203 Chamberlain	Te-32181	Gastonia, NC
Wilkins, Jesse B.	SR	Welch	Welch	Te-29119	Box 7, Woodsdale, NC
Wilkinson, Edward D.	SO	LA	105 Fourth	Te-29159	309 S. Main, Newton, NC
*Wilkinson, Richard L.	SR	EE	22G, Vetville	Te-37140	2004 Smallwood, Raleigh, NC
*Wilkinson, Wm. D.	SR	EE	Alexander		Greensboro, NC
Willard, Marion W.	SO	MEA		Te-29545	Winston-Salem, NC
*Willey, Norman H.	JR	AG	Methodist Home	Te-48496	213 Fork, Raleigh, NC
*Williams, Donald W.	JR	AG	Methodist Home	Te-48496	Raleigh, NC
Williams, George G.	FR	IE	Tucker	Te-49323	Asheville, NC
Williams, George F.	JR	CE	Syme	Te-29222	Box 427, Fairmont, NC
Williams, Herbert H.	SR	IE	2319 Hillsboro	Te-34106	Box 344, Maxton, NC
Williams, Herman A.	SO	AED	Becton	Te-29372	RT#2, Wadesboro, NC
Williams, Horace B.	SO	ME	612 1/2 Blount		Henderson, NC
*Williams, James A.	SR	EE	34G, Vetville	Te-45046	Morganton, NC
Williams, James A.	SO	MEA	Tucker	Te-29323	1013 86th, Lumberton, NC
Williams, James A.	SO	NE	Owen	Te-29464	Park Blvd, Marion Va.
*Williams, James Dean	SO	AED			P.O. Box 503, Rolesville, NC
Williams, James G.	FR	ME	Syme	Te-29421	Box 21, Mann, NC
Williams, James Speed	FR	EE	Turlington	Te-29192	RT#2, Durham, NC
Williams, Joe M.	SO	AI	Owen		RFD#1, Olin, NC
*Williams, John Bright	JR	ME	2402 Everett		2402 Everett, Raleigh, NC
Williams, Jos. H.	JR	MAG	YMCA	Te-27184	Beaverville, NC
Williams, Luther E.	SO	CE	2316 Hillsboro		Valdese, NC
*Williams, Lloyd E.	SR	IE	102 Gardner	Te-40535	102 Gardner, Raleigh, NC
Williams, Ralph F.	JR	HAC	2314 Hillsboro	Te-34106	130 Dorchester, Asheville, NC
Williams, Richard T.	JR	AID	Tucker		RFD#4, Statesville, NC
Williams, Robert C. 3rd.	FR	EPY	Owen	Te-29252	1908 Sterling, Charlotte, NC
Williams, Robert K.	FR	EE	Tucker		Concord, NC
*Williams, Robert Lee Jr.	JR	ME	2320 D.Clark		RFD#1, Newton Grove, NC
Williams, Robert S. Jr.	JR	AED	Syme		2320 D.Clark, Raleigh, NC
Williams, Royce Lee	SO	EPY	Owen	Te-29410	RFD#1, Erwin, NC
*Williams, S. Paul			851 1/2 Tryon		Box 958, Granite Quarry, NC
Williams, Snyder F.	FR	AI	Owen		RT#1, Rose Hill, NC
*Williams, Tully Baxter Jr.	SR	AGY	37G, Vetville	Te-29219	Currituck, NC
Williamson, Donald H.	SO	AED	Welch	Te-29117	Lucama, NC
Williamson, Ivey E.	JR	AWE	Welch	Te-29119	RT#2, Lucama, NC
Williamson, John F. Jr.	FR	EE	Syme		Kannapolis, NC
Williamson, Finley Lea			2232 Hillsboro		Pt. Lauderdale, Fla.
Willis, James B. Jr.	FR	AG	2226 Hillsboro	Te-49836	Morehead City, NC
Williamson, John H.	JR	TC	Owen	Te-49949	Clarkton, NC
Willard, Kellis U. 3rd.	JR	IE	2512 Clark		Charlotte, NC
*Williamson, Kenneth U.	SR	TC	RT#1 Cary, NC		Wilmington, NC
Williamson, Leon B.	SR	EE	Welch		RT#2, Lucama, NC
Williford, Jack P.	SO	AG	Becton	Te-29372	RT#1, Wilson, NC
Willis, Charles A.	JR	CE	124 E. Park		Charlotte, NC
Willis, Jerry T.	SO	AG	Dairy Farm	Te-42134	RT#3, Lawndale, NC
Willis, Ronald Lee	FR	ME	Tucker		102 Turner Spray, NC
Willis, Carl D.					205 Poplar, Raleigh, NC
Wilmeth, Clyde F. Jr.			1605 Scales	Te-25663	
*Wilson, David Rhyme	ME		113 Bloodworth S.		RT#1, Huntersville, NC
Wilson, Donald P.	JR	2E	Tucker	Te-49739	Shelby, NC
*Wilson, Eddie Kay	FR	AED	2552 Glenwood #2.	Te-46804	Columbus, NC
Wilson, Fred E.	FR	TC	Becton		High Point, NC
Wilson, George G.	FR	ME	Bagwell	Te-29131	1317 Anderson, Charlotte, NC
Wilson, Harold D. Jr.	FR	FOR	Wakarusa	Te-29132	RT#4, Raleigh, NC
Wilson, Jack Leroy	FR	AED	Owen	Te-49836	RT#1, Dallas, NC
*Wilson, John Lennie	SO	EE			533 Wayne Dr, Raleigh, NC
Wilson, Larry F.	FR	3ED	Syme	Te-29288	RT#2, Apex, NC
Wilson, Larry Kelly	SO	ED	Tucker		RT#2, Burlington, NC
*Wilson, Olin E.	JR	TC	C3A Cameron St.	Te-46177	Raleigh, NC
Wilson, Robert Vance	SO	2ED	Tucker	Te-29388	Concord, NC
Wilson, Roger Vinson	FR	AG	Owen	Te-29464	RT#1, Stokesdale, NC
*Wilson, Stanley A.	FR	EE	303 Park	Te-21525	112 Underdown, Lenoir, NC
Wilson, Stanley H.					RT#9, Box 20, Greensboro, NC
Wilson, Thomas Lee	FR	CEC	Barwell	Te-29412	Statesville, NC
*Wilson, Thomas Marlon					RT#1, Garner, NC
*Wilson, Wm. Levi	Jr	2HE	201 1/2 Pine		RT#5, Box 425, Asheville, NC
Winborne, Willard Thomas					RT#6, Young, Raleigh, NC
Winborne, McLaurin					112 H-In, Clinton, NC
Winchell, Alan K.	Jr	2HE	Tucker	Te-29388	RT#1, Windsor, NY
Winchester, Donald C.					1035 Bedford, Augusta, Ga.
Winchester, George L. Jr.	Jr	2HE	2513 Stafford	Te-27679	2513 Stafford, Raleigh, NC
Windley, Franklin D.	Jr	IE	Becton		RT#2, Box 26, Bath, NC
Winfield, Ottis M. Jr.	Jr	BE	2601 Clark	Te-28631	Washington, NC
Winfrey, Henry G.	Jr	AED	301 Colleton Rd.		RT#1, Pfafftown, NC
*Wingate, Clarence A. Jr.			1108 Arlington		1108 Arlington, Raleigh, NC
Winkler, Billy McCoy	FR	E	116 St. Mary #6		Granite Falls, NC
Winkler, Donald G.	FR	FOR	Owen	Te-29142	Chesler, NJ
*Winn, Hugh Jr.	JR	2E	37H, Vetville	Te-29219	37H, Vetville, Raleigh, NC
Winstead, Kermit M.	JR	ME	117 Forest	Te-34090	RT#8, Sanford, NC
Winter, Robert E.	FR	ME	Owen		RFD#5, Morganton, NC
*Withers, Robert E.	FR	IE	811 Daniels		119 Galloway, Mt. Airy, NC
Witke, Christian H. 3rd.	FR	1E	Barwell	Te-29131	403 Westover, Wilson, NC
Wolard, James Madison	Jr	14	260 1/2 Clark	Te-20671	Alexandria, Va.
Wolfe, Lawrence A. Jr.	Jr	2M	Syme	Te-29222	RFD#2, Beasler City, NC
Wolfe, Stephen P.	FR		Turlington		Jameville, NC

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Womack, Robert R.	SO	MEA	Becton		Box 509, Franklin, NC
Womble, Thomas M. Jr.	SR	IE	EAE House	Te-34808	Wrightsville Beach, NC
*Womick, Robert Louis	JR	ST	24D, Vetville		RFD#2, Rutherfordon, NC
Woo, Kuo Chuan	SR	MEA	Owen	Te-29115	Honkong, China
Wood, Fred Douglas Jr.	SO	AED			Wadesboro, NC
*Wood, Gerald H.	SO	AED			1504 Iredell, Raleigh, NC
*Wood, Howard A.	JR	MEA	909 Peace Terrace	Te-49880	Enfield, NC
Wood, James McG.	FR	TEE	124 Groveland	Te-27207	Falls Church, Va.
*Wood, John C.	SR	AGY	31C, Vetville		RFD#2, Hayesville, NC
Wood, Kermit L.	FR	EE	Tucker	Te-29387	Raeform, NC
Wood, Luther Miller	FR	CE	Syme		High Point, NC
Wood, Mann Leake	JR	CE	137 1/2 Gardner	Te-25675	Henderson, NC
*Wood, Samuel R.	JR	TX			Box 584, Roanoke Rapids, NC
Wood, Thomas J.	FR	FOR	Turlington	Te-49279	Box 386, Raeform, NC
Woodall, Charles E.	FR	ARC	12 1/2 Enterprise	Te-33432	RFD#1, Smithfield, NC
*Woodall, Hunter McG.	SR	IE	406 1/2 Chamberlain	Te-35316	1922 Sunset Dr., Raleigh, NC
*Woodall, Zebulon A.	SC	CE	18D, Vetville		Benson, NC
*Woodall, Stacy Morris	AK	AED	718 Rosemont	Te-39278	RFD#3, Benson, NC
Woodard, Henry H.	SR	EE	Syme		Scotland Neck, NC
Woodard, Jos. W.	SO	AED	Becton	RT#1, Spring Hope, NC	
Woodard, Ollie C.	JR	ER	Becton		RFD#1 Spring Hope, NC
Woodard, Robert Earl	FR	AED	Owen	Te-29410	RT#1, Princeton, NC
Woodley, Glenn W.	SO	AG	Owen	Te-29410	RT#1, Columbia, NC
*Woodlief, Clifton L.	FR	AED	Syme		RT#1, Kittrell, NC
Woodlief, Eugene A.			Owen		Oxford, NC
Woodlief, Milton C.	SR	AGE	Syme	Te-29222	RFD#2, Kittrell, NC
Woodlief, Rufus C.	SO	ME	Tucker		Henderson, NC
Woodruff, Charles E.	FR	ME	Owen		Roanoke Rapids, NC
*Woodruff, James H.	JR	AGY			433 Halifax, Raleigh, NC
Woods, Alvin E.	GR	DM	Tucker		RT#5, Murfreesboro, Tenn.
Woody, Frank S.	FR	NE	Owen	Te-49836	301 1st, Leaksville, NC
Woody, Garland	SR	AED	301 Colleton		RT#1, Bryson City, NC
*Woodard, Gerald J.	SO	CEE	136 Ashe	Te-42606	106 Ashe, Raleigh, NC
Woodlief, David Val	JR	WRM	Tucker	Te-29323	Rockaway, NY
Wooten, Jimmy L.	GR	AG	Becton	Te-29334	RT#3, Walstonburg, NC
Wooten, Joe F.	FR	ER	Owen	Te-49836	Dallas, NC
Woppman, Richard A.	FR	CEE	Turlington	Te-29192	Charlotte, NC
Workman, Thomas R.	FR	TEE	1800 Park	Te-49635	1800 Park, Raleigh, NC
Worley, Jack D.	FR	EE	15 Maiden Lane	Te-43374	RT#1, Canton, NC
Worley, James A. Jr.	FR	ME	Owen		RT#2, Whittier, NC
*Worley, Roy E.	GR	AGY			400 Parnell, Raleigh, NC
Worsley, Nathan W. 2nd.	SR	AGY	Becton		RFD#1, Oak City, NC
*Worthington, Clifford T. Jr.	JR	NE	2704 Mayview	Te-41050	Raleigh, NC
Worthington, David Jan	JR	TX	Owen		Princeton, NC
Worthington, Lloyd E.	SO	EE	Owen	Te-29410	Winterville, NC
*Wray, Stough A.	FR	CE	Becton		Shelby, NC
*Wright, Charles G.	SR	ENT	Becton		Raleigh, NC
Wright, David Wayne	SO	PPT	Tucker		RT#3, Box 215, Marion, NC
Wright, James A.	FR	AG	P.O. Box 5563 State		Holly Springs, NC
Wright, James B.	SR	NE	Bagwell		BT#4, Hendersonville, NC
Wright, James R.	SR	CE	Becton	Te-29261	P.O. Box 8, Raeform, NC
Wright, Julian H.	JR	ME	Tucker		Asheville, NC
*Wright, Lewis C.	SR	CEE	208 Taylor	Te-30533	RT#5, Henderson, NC
Wright, Owen David	FR	TX	Turlington	Te-29297	Box 607, Black Mtn. NC
Wright, Paul Newton	FR	ME	Turlington		Charlotte, NC
Wright, Paul W. Jr.	JR	NE	1218 Glenwood	Te-28878	Winston-Salem, NC
Wright, Richard G.	JR	CE	2314 Hillsboro	Te-34106	
*Wright, Walton R.	JO	NE	812 Peace Terrace	Te-20908	
*Wuanett, Stephen C.	JR	CE	517 N. East	Te-24292	RT#2, Cleveland NC
*Wyatt, Charles E.	SR	REC	412 Walton St.		412 Walton, Raleigh, NC
Wyatt, Wm. R.	JR	ME	Matauga	Te-29447	Winston-Salem, NC
Wyke, James F.			Owen		Marion, NC
Wyke, Thomas F.	SO	NE	Alexander	Te-29349	RFD#5, Shelby, NC
Wylie, Gayle W.	SR	ME	2702 Hillsboro	Te-21835	Goldsboro, NC
Wyman, John E.	FR	ARC	Owen	Te-29252	Williamston, NC
Wynne, Frank E.	JR	ARC	Syme	Te-29288	Morrantown, NC
Wynne, George Wm.	JR	ME	Owen		Rocky Mount, NC
Wynne, Wm. A. Jr.	JO	EE	Welch	Te-29119	
*Yasel, Ivan C.					139 Purejoy, Chasol Hill, NC
*Yager, Daniel D.	JR	IE	26E, Vetville	Te-27927	419 Bridges, Leaksville, NC
Yamamoto, Willy D.	SR	IE			La Paz-Bolivia
*Yancey, Cyril A.	SR	MEA	425 Park Dr.		1st. Ave. N. Conover, NC
Yancey, J.C.	JR	TX	116 Hawthorne	Te-28406	326 Caldwell, Newton, NC
*Yarber, Norman Grey	JR	TX	35A, Vetville		35A, Vetville, Raleigh, NC
Yarborough, Philip P.	FR	MEA	Tucker	Te-29312	Lexington, NC
Yarborough, George W.	SO	CE	Becton		Salisbury, NC
Yarborough, John H.	FR	CE	3008 Medlin Dr.	Te-26174	3008 Medlin, Dr., Raleigh, NC
Yarborough, Randall B.	FR	CEC	Tucker		High Point, NC
Yates, David H.	FR	EE	Turlington	Te-29192	Valle Crucis, NC
Yates, Jos. L.	SO	CE	Turlington	Te-49279	Fairmont, NC
*Yawn, Charles C.	JR	CEE	130 Cox		Kings Mtn. NC
*Yelverton, Roy L.	SR	E	701 Brooks	Te-44179	701 Brooks, Raleigh, NC
Yionoulis, Stevie Mike	SO	CE	Turlington		805 W. Nash, Wilson, NC
*Yoceyar, Ibrahim					Ismir, Turkey
Yoder, James Kenner	FR	ME		Te-24493	2208 St. Mary, Raleigh, NC
Yoder, Paul E.	FR	ME	Syme	Te-29288	2105 Hoover, Winston-Salem, NC
Yoder, Phillip D.	FR	HAC	Syme	Te-29222	Box 93, Newton, NC
Yonaboonkird, Uhpai		AG	Rick Hall		Bangkok, Thailand

NAME	YR	SCHOOL	CAMPUS ADDRESS	TELEPHONE	HOME ADDRESS
Yonta, Woodrow Lloyd	SO	CE	Syme		Thomasville, NC
Yontsios, John Nicholas	JR	ME	Welch	Te-29119	Salisbury, NC
Yopp, Wm. Harriss	SO	MEA	Turlington	Te-49279	Hendersonville, NC
York, Dennis R. Jr.	JR	EE	Becton		Asheboro, NC
York, Edgar F.	SR	EE	2426 Hillsboro		276 Midland, Southern Pines, NC
*York, James A.					931 Peace Terrace, Raleigh, NC
*Young, Charles W.	GR	AI	609 St. Mary, Garner		609 St. Mary, Garner, NC
Young, Danny Norman					338 Lake Shore, Asheville, NC
Young, Donald Gayle	JR	FCM	Syme	Te-29150	Asheville, NC
Young, Henry J.	SO	IE	1710 Hillsboro	Te-42001	Statesville, NC
*Young, Howard B.	GR	AC	1618 Hillsboro		390 Best, Athens, Ga.
Young, Jimmy A.	FR	TX	Syme		RFD#1, Jamestown, NC
*Young, Joe Herman	SR	MAG	1217 Kent Hd.	Te-20051	1217 Kent Hd., Raleigh, NC
*Young, Joseph E.			Box 24, Knightdale		Grant, La.
Young, Sam F. Jr.	FR	EE	Owen		Pine Hall, NC
Young, Wm. Vincent					1510 Hillsboro, Raleigh, NC
Younts, Charles H.	SO	AGY	2100 Hillsboro	Te-40094	RT#2, Lexington, NC
*Yount, Richard H.			2317 Grant Ave.		2317 Grant, Raleigh, NC
Yow, John Samuel	SO	DM	Owen		Greensboro, NC
Yu, Pas-lo	GR	EST	203 Groveland	Te-26861	Shanghai, China
*Yuigues, Amador D'Bayam	GR	EST			122 Ashe, Raleigh, NC
Yujuico, Alejandro L.	JR	TX	Owen		Quezon City, Philippines
Zachary, Claude R. Jr.	SO	ME	Owen	Te-49836	Charlotte, NC
Zachary, Woodard Wm.	SR	NE	209 W. Edenton	Te-40239	Box 3741, Washington, D.C.
Zimmerman, Marcus R.	SO	CE	2512 Clark	Te-24843	Winston-Salem, NC
*Zimmerman, Norman Leo	PR	ARC	131 Hawthorne	Te-44906	131 Hawthorne, Raleigh, NC
Zimmerman, Wade H.	JR	ME	Welch		RT#1, Murphy, NC
Zografakis, Fusuekis, G.			Owen	Te-29464	Creta, Greece
Zolfaghari, Mozufaredin	SR	AFE	Berry		Teheran, Iran
Zorbalas, George S.	GR	RE	Sold		New Bern, NC
*Zubatz, John R. Jr.	SI	IA	Bagwell	Te-29131	Box 106, Loyalhanna, Pa.
*Zubizarreta, Ignacio	SR	ARC	2320 Clark		Caracas, Venezuela
*Zuran, Edward A.	GR	DM		Te-35655	2720 Mayview, Raleigh, NC

TELEPHONE DIRECTORY

N. C. State College P.B.X. TE 4-5211
 State Capitol P.B.X. TE 4-3611
 Ambulance TE 2-8839, TE 2-7743
 Infirmary TE 2-7615
 Fire Department TE 2-7733
 Police Department TE 4-5261

College

Agriculturist Ext. 331
 Agromeck TE 2-9909
 Athletic Department TE 2-2407
 Alumni Office Ext. 252
 Coliseum, Wm. Neal Reynolds Ext. 411
 College Cafeteria TE 3-4825
 College Union TE 4-7318 and Ext. 378
 Dean of Students Ext. 215
 Dormitory Rentals Ext. 349
 Laundry Ext. 283
 News Bureau Ext. 253
 Power Plant Ext. 234
 Nights and Sundays TE 3-8528
 Registration Office Ext. 219
 Sports Publicity Office TE 3-5620
 Student Activities Ext. 370
 Division of Student Affairs Ext. 456
 Student Aid and Employment Ext. 460
 Student Government TE 2-8738
 Student Housing Ext. 434
 Student Personnel Office Ext. 224
 Student Supply Stores TE 2-3674
 Technician TE 2-4732
 Textile Forum TE 2-0840
 Wolfpack Club TE 4-2241
 WVWP Radio Station TE 2-7861
 YMCA TE 2-7184 and Ext. 202

Verville

Manager's Office, UK-5 TE 2-4306
 Southeast Area by UK-35 TE 2-9282
 North Area, East End of Apt. 6 TE 2-9117
 South Area,
 West End of Apt. 32 TE 2-9219
 West End of Apt. 25 TE 2-9290
 West End of Apt. 34 TE 2-9498

Dormitories

Alexander, 1st Floor TE 2-9257
 Alexander, 2nd Floor TE 4-9746
 Alexander, 3rd Floor TE 2-9349
 Bagwell, 1st Floor TE 2-9412
 Bagwell, 2nd Floor TE 2-9131
 Bagwell, 3rd Floor TE 4-9151
 Becton, Basement TE 2-9261
 Becton, 1st Floor TE 2-9256
 Becton, 2nd Floor TE 2-9334
 Becton, 3rd Floor TE 2-9372
 Berry, Basement TE 2-9350
 Berry, 2nd Floor TE 2-9363
 IDC, 107 Berry Ext. 348
 East Stadium TE 4-9803
 Fourth TE 2-9159
 Gold TE 2-9263
 Owen, Basement TE 2-9142
 Owen, 1st Floor TE 2-9437 and TE 2-9115
 Owen, 2nd Floor TE 2-9410 and TE 2-9252
 Owen, 3rd Floor TE 4-9836 and TE 2-9464
 Syme, Basement TE 4-9805 and TE 2-9421
 Syme, 1st Floor TE 2-9288
 Syme, 2nd Floor TE 2-9150
 Syme, 3rd Floor TE 2-9222
 Tucker, Basement TE 4-9254 & TE 2-9186
 Tucker, 1st Floor TE 2-9367 & TE 2-9388
 Tucker, 2nd Floor TE 2-9387 & TE 2-9312
 Tucker, 3rd Floor TE 4-9739 & TE 2-9323
 Turlington, 1st Floor TE 4-9279
 Turlington, 2nd Floor TE 2-9297
 Turlington, 3rd Floor TE 2-9192
 Watauga, 1st Floor TE 2-9447
 Watauga, 2nd Floor TE 2-9132
 Welch TE 2-9119

Fraternities

IFC, 1720 Hillsboro Street TE 4-9883
 Alpha Gamma Rho
 2718 Clark Ave. TE 2-6451
 FarmHouse, 2100 Hillsboro St. TE 4-6094
 Kappa Alpha, 1710 Hillsboro St. TE 4-2001
 Kappa Sigma, 2612 Clark Ave. TE 3-0671
 Lambda Chi Alpha,
 222 Hillcrest TE 2-3429
 Phi Epsilon Pi,
 130 Hawthorne Rd. TE 4-7325
 Phi Kappa Tau, 308 Horne St. TE 2-7050
 Pi Kappa Alpha, 1720 Hillsboro TE 4-9883
 Pi Kappa Phi
 Sigma Alpha Epsilon,
 3413 Hillsboro TE 3-3808
 Sigma Alpha Mu,
 304 E. Park Dr. TE 2-7638
 Sigma Chi, 2514 Clark Ave. TE 3-4522
 Sigma Nu, 1620 Hillsboro St. TE 2-9531
 Sigma Phi Epsilon, 2512 Clark TE 2-4843
 Sigma Pi, 2513 Clark Ave. TE 2-0268
 Tau Kappa Epsilon, 2405 Clark TE 2-6543
 Theta Chi, 3205 Hillsboro TE 3-6901

FREQUENTLY USED OFF CAMPUS PHONE NUMBERS

Carolina Hotel TE 2-8811

Southern Bell Telephone Co.

Information 113

Long Distance 110

Telephone out of order 114

Meredith College

(Regulations—students may not use telephone between 7:30 and 10:00 p.m. week-nights, and 11:15 p.m. and 7:15 a.m. Seniors may use dorm phones during study hours. Limit call to five minutes.)

Switchboard TE 3-6461

Brewer Dorm 1st floor TE 2-9165
2nd floor TE 4-9294
3rd floor TE 4-9284

Faircloth Dorm 1st floor TE 2-9163
2nd floor TE 4-9209
3rd floor TE 4-9293

Vann Dorm 1st floor TE 2-9166
2nd floor TE 4-9191
3rd floor TE 4-9394

Stringfield Dorm 1st floor TE 2-9160
2nd floor TE 4-9387
3rd floor TE 4-9182

Johnson Hall TE 4-9208

Day Students Room TE 4-9207

Peace College

(Regulations—telephone hours on weekdays 3:30 to 6:00 p.m. and 6:30 to 7:00 and 10:00 to 10:40 p.m. All day Saturday and all day Sunday except 2:00 to 4:00 p.m.)

Switchboard TE 2-2016

Rex Hospital TE 2-7521

St. Mary's TE 3-6621

(Telephone hours as follows:)

1. Weekdays:

8:00-8:30 a.m.
1:30-1:45 p.m.
3:45-5:55 p.m.
6:40-7:25 p.m.
9:30-10:10 p.m.

2. Saturday:

9:30 a.m.-12:55 p.m.
1:30 p.m.-5:55 p.m.
6:40 p.m.-10:10 p.m.

3. Sunday:

9:00 a.m.-10:30 a.m.
12:15 p.m.-1:00 p.m.
3:15 p.m.-5:00 p.m.
6:30 p.m.-9:30 p.m.

4. No call should be over 3 minutes.

Sir Walter Hotel TE 2-7711

Seaboard R. R. Station TE 3-7501

Southern R. R. Station TE 2-6441

Union Bus Station TE 2-5536

Western Union TE 2-7761

YWCA TE 2-8566

Chaplains

Rev. R. C. Lasater (Baptist)

Home TE 2-0850

B.S.U. Office TE 2-1835

Rev. Robert Henderson (Presby)

Home TE 4-2631

Westminster Fellowship TE 3-4300

Rev. Neal McGlamery

Wesley Foundation TE 3-1861

Rev. Raymond Bost (Lutheran)

Home TE 2-6610

Office TE 2-9687

Rev. Walser Allen, Jr.

(Moravian) TE 3-3840

Rev. John Wooley (Episcopal) TE 2-4078

Father Jones (Catholic) TE 2-6030

Rev. G. Harold Myers

(Evangelic and Reform) TE 3-9136

Rabbi E. M. Rosenzweig (Jewish)

Chapel Hill 7731

TAXI—Safety TE 2-8800

Yellow TE 2-5811

1956-1957 STUDENT DIRECTORY

Abbreviations For Departments and Curriculum

Abbreviations Dept. or Curriculum

ABC	Agri. & Biol. Chem.
AEC	Animal Ecology
AG	Agriculture
AGP	Agriculture (P.V.)
AGC	Agricultural Economics
AED	Agricultural Education
AGE	Agricultural Engineering
AGY	Agronomy
AI	Animal Industry
AIP	Animal Industry (P.V.)
AMA	Applied Mathematics
ARC	Architecture
AS	Air Science
BI	Biology
BO	Botany
CE	Civil Engineering
CEC	Civil Engr., Const. Opt.
CRE	Ceramic Engr.
CH	Chemistry
CHE	Chemical Engr.
CON	Construction
DE	Diesel Engr.
DM	Dairy Mfg.
DN	Design
EC	Economics
ED	Education
EE	Electrical Engr.
E	Engineering
EM	Engineering Mechanics
ENG	English
EPY	Engr. Physics
ENT	Entomology
EST	Experimental Statics
FMM	Furn. Mfg. & Mgt.
FOR	Forestry
FOM	Forest Mgt.
GEE	Geological Engr.
GN	Genetics
GS	General Studies
GY	Geography
HAC	Heating & Air Cond.
HI	History
HRT	Horticulture
IA	Industrial Arts
IED	Industrial Education

Abbreviations Dept. or Curriculum

IE	Industrial Engr.
IPS	Industrial Psychology
IRR	Industrial & Rural Recreation
LA	Landscape Arch.
MA	Mathematics
ME	Mechanical Engr.
MED	Mathematics Educ.
MAG	Mechanized Agri.
MEA	Mech. Engr., Aero. Opt.
MIC	Mineral Ind. Ceramics
MIG	Mineral Ind. Geology
MIM	Mineral Ind. Metal.
MTE	Metallurgical Engr.
ML	Modern Language
MS	Military Science
NE	Nuclear Engr.
OIG	Occ. Inf. & Guid.
PE	Physical Education
PEC	Plant Ecology
PHI	Philosophy
PO	Poultry
PP	Plant Pathology
PPH	Plant Physiology
PPT	Pulp & Paper Tech.
PS	Political Science
PSC	Poultry Science
PSY	Psychology
PY	Physics
REC	Recreation
REL	Religion
RS	Rural Sociology
SBO	Systematic Botany
SED	Science Education
SOC	Sociology
SS	Social Studies
ST	Statistics
TC	Textile Chemistry
TX	Textiles
TXM	Textile Mfg.
WCM	Wild. Cons. & Mgt.
WPM	Wood Prod. Mdsq.
WT	Wood Technology
ZO	Zoology

Sixty-Eighth
Annual Commencement

*The North Carolina State College
of Agriculture and Engineering of
the University of North Carolina*

**Exercises of
Graduation**

Sunday, May 26
Nineteen Hundred and Fifty Seven
Degrees Awarded 1956-57

MUSICAL PROGRAM

Exercises of Graduation

WILLIAM NEAL REYNOLDS COLISEUM

May 26, 1957

CONCERT, 9:30 A.M.

Pride of the Pacific	<i>Kleffmann</i>
Light Cavalry, Overture	<i>v. Suppe</i>
Adagio Pathetique, Op. 128, No. 3	<i>Godard</i>
Pieces of Eight, Concert March (Based on themes from Beethoven's Symphony No. 8)	<i>Jenkins-Neff</i>
Choral Prelude on "Dundee"	<i>Whitney</i>

PROCESSIONAL, 10:00 A.M.

Marche Noble	<i>Chr. Bach</i>
Coronation March, from "LeProphete"	<i>Meyerbeer</i>
Tannhauser March	<i>Wagner</i>
Pontificale, March	<i>Gounod</i>
Marche Royale	<i>DeSmetsky</i>

RECESSIONAL

University Grand March	<i>Goldman</i>
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HYMN

O God, Our Help in Ages Past	<i>Croft-Watts</i>
------------------------------------	--------------------

O God, our help in ages past,
Our hope for years to come,
Our shelter from the stormy blast,
And our eternal home.

Before the hills in order stood,
Or earth received her frame,<
From everlasting Thou art God,
To endless years the same.

Time, like an everlasting stream,
Bears all its sons away;
They fly forgotten, as a dream
Dies at the opening day.

O God, our help in ages past,
Our hope for years to come,
Be Thou our guard while life shall last,
And our eternal home.

NORTH CAROLINA STATE COLLEGE BAND

C. D. Kutschinski, Director

Robert A. Barnes, Assistant Director

COMMENCEMENT PROGRAM

Exercises of Graduation

WILLIAM NEAL REYNOLDS COLISEUM

May 26, 1957

10:00 A.M.

PROCESSIONAL _____ C. D. Kutschinski
Director, North Carolina State College Band

The audience is requested to remain seated
during the processional and the recessional.

PRESIDING _____ Carey H. Bostian
Chancellor, North Carolina State College

INVOCATION _____ Roberts C. Lasater
Chaplain, Baptist Student Union

GREETINGS _____ Luther H. Hodges
Governor of North Carolina

HYMN _____ "O God, Our Help in Ages Past"

SCRIPTURE READING _____ Ephesians 6: 10-18, 23-24

SERMON _____ Dr. John A. Redhead, Jr.
Pastor, First Presbyterian Church, Greensboro

PRAYER

ANNOUNCEMENTS

AWARDING OF GOODWIFE DIPLOMAS _____ James M. Nolan
President of Student Government

CONFERRING OF DEGREES _____ Carey H. Bostian
Chancellor, North Carolina State College
John W. Shirley
Dean of the Faculty

Candidates for baccalaureate degrees presented by
Deans of Schools. Candidates for advanced degrees
presented by Acting Dean Walter J. Peterson. Candi-
dates for honorary degrees presented by John W. Poy,
Chairman, Honorary Degrees Committee.

REMARKS TO THE GRADUATING CLASS _____ Roger Post Hill
President, Class of 1957
William C. Friday
President, University of North Carolina

BENEDICTION

RECESSIONAL

DIPLOMA PRESENTATIONS, 2:30 P.M.

<i>School</i>	<i>Dean</i>	<i>Location</i>
Agriculture	D. W. Colvard	College Union Ballroom
Design	H. L. Kamphoefner	Brooks Hall
Education	J. B. Kirkland	Pullen Hall
Engineering	J. H. Lampe	Coliseum
Forestry	R. J. Preston	Kilgore Hall
Textiles	M. E. Campbell	Nelson Textile Building



DEGREES CONFERRED

July 13, 1956

August 24, 1956

January 28, 1957

May 26, 1957¹

School of Agriculture



BACHELOR OF SCIENCE IN AGRICULTURAL AND BIOLOGICAL CHEMISTRY

James Theodore Earley (Jan., 1957)	_____	Raleigh
John Albert Emory (May, 1957)	_____	Asheville
Thomas Hugh Talley (May, 1957)	_____	Mount Airy

BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS

Charles Oscar Bridger (July, 1956)	_____	Bladenboro
Robert Vance Brown, Jr. (May, 1957)	_____	Zebulon
† Charles Edward Caudill (May, 1957)	_____	Glendale Springs
Jonathan Barnes Ellis (May, 1957)	_____	Saratoga
Richard Dewitt Hewitt (May, 1957)	_____	Moravia, N. Y.
Edward Bert Lassiter (May, 1957)	_____	Four Oaks
‡ Alvin Davis McArthur, Jr. (May, 1957)	_____	Greenville
Fred Allen Mangum, Jr. (May, 1957)	_____	Zebulon
Marion Roger Rouse (May, 1957)	_____	Kinston
Milton Ray Spain (May, 1957)	_____	Kinston
Percy Leo Strickland, Jr. (May, 1957)	_____	Dunn
James Raymond Vinson, Jr. (May, 1957)	_____	Burlington

BACHELOR OF AGRICULTURAL ENGINEERING

Bobby Ray Gay (May, 1957)	_____	Kittrell
Bobby Elmore Greene (Jan., 1957)	_____	Oxford
Bobby Pink Huskey (Jan., 1957)	_____	Kings Mountain

¹Dates following students' names indicate the time at which their degree was awarded. Symbols in front of students' names indicate: † Honors; ‡ High Honors; * Degree conferred In Absentia.

†Richard Frederick Jessup (May, 1957)	Winston-Salem
Fred William Kiser (May, 1957)	Kings Mountain
Frank Covington Townsend (May, 1957)	Durham
Milton Cary Woodlief (May, 1957)	Kittrell
Mozafareddin Zolfaghari (May, 1957)	Teheran, Iran

BACHELOR OF SCIENCE IN ANIMAL INDUSTRY

Paul Robert Barton (Jan., 1957)	Charlotte
Reece Edward Brown, Jr. (May, 1957)	Charlotte
Max Robert Cody (May, 1957)	Hickory
John Robert Fulk (Jan., 1957)	Pilot Mountain
Ghazi Abdul Amir Ghazi (May, 1957)	Nassriha, Iraq
Howard Stafford Gray (May, 1957)	Colfax
John Blackwell Hardy, Jr. (May, 1957)	Durham
Byron Rankin Hodgkin (May, 1957)	Guilford College
Joseph Dawkins Howell (May, 1957)	Waynesville
Austin Rae Johnson (July, 1956)	Bayboro
†Faron Spencer Jones (May, 1957)	Polkton
Kenneth Gene Keenum (May, 1957)	Hazelwood
Leonard Clyde Lathan (Jan., 1957)	Monroe
Ernst Richard Laursen (Jan., 1957)	Swannanoa
William Charles McGinnis (May, 1957)	Charlotte
Robert Lee McGuire (May, 1957)	Brevard
Phillip Brooks McMahan (Jan., 1957)	Black Mountain
Atalla Said Mohammad (May, 1957)	Baquba, Iraq
†Malcolm High Montgomery (May, 1957)	Semora
David Owen Proctor (May, 1957)	Saratoga
Henry Alvord Scott, Jr. (May, 1957)	Haw River
Robert Melvin Shaw (May, 1957)	Evergreen
†Ralph deSchweinitz Siewers, III (May, 1957)	Winston-Salem
Behnam Bashir Simaan (Jan., 1957)	Zakho, Iraq
Joe Michael Smith (May, 1957)	Peachland
David Griffin Spruill (May, 1957)	Columbia
Abdul Amir Abdul Hussien Al-Talibi (May, 1957)	Omarah, Iraq
Don Boyden Tucker (May, 1957)	Laurel Springs
Talmadge Jay Wiggins (May, 1957)	Bryson City

BACHELOR OF SCIENCE IN DAIRY MANUFACTURING

Otis Earl Cobb (May, 1957)	Reidsville
†William Younts Cobb (May, 1957)	Greensboro
Donald Turner Liden (May, 1957)	Rockville Center, N. Y.
†Claude Wayne Moss (May, 1957)	Rural Hall
Henry Lee Ritchie (May, 1957)	Concord

BACHELOR OF SCIENCE IN ENTOMOLOGY

Abbass Abdul-Karim Daoud (May, 1957)	Samarra, Iraq
Roy Bernard Goforth, Jr. (May, 1957)	Fayetteville
Kamal Mustafa Al-Habib (Jan., 1957)	Hilla, Iraq
Anis-Nimat-Allah Wadih Naoum (Jan., 1957)	Baghdad, Iraq
Jafar Mehdi Al-Waily (May, 1957)	Numania, Iraq

BACHELOR OF SCIENCE IN FIELD CROPS

Tommy Edward Andrews (Jan., 1957)	Graham
Shamoon Isa Bekou (Jan., 1957)	Mangaish, Iraq
Jennings Garland, Jr. (May, 1957)	Fletcher
Robert Woolard Clark (May, 1957)	Everetts
† August Albert DeHertogh (May, 1957)	Lenont, Ill.
† Harold Moffitt Flanagan (May, 1957)	Farmville
Roger Post Hill (May, 1957)	Pink Hill
David Reid Hopkins (May, 1957)	Brown Summit
Earl Jennings James (May, 1957)	Wallace
Thomas Guthrie Jones (May, 1957)	Graham
Jafar Hadi Muhja (May, 1957)	Diwaniyah, Iraq
John Earl Olund (May, 1957)	Beaufort
Stacy Ray Quinn (May, 1957)	Beulaville
† Lewis Taylor Rascoe, Jr. (May, 1957)	Windsor
Arthur Hope Shackelford (May, 1957)	Hookerton
Robert Melvin Shaw (May, 1957)	Evergreen
Benjamin Willie Smith (May, 1957)	Lillington
Robert Green Snead (May, 1957)	Yanceyville
Alvin Mercer Stanford (May, 1957)	Richlands
Reginald Lee Stroud (May, 1957)	Kinston
† Lully Baxter Williams, Jr. (May, 1957)	Currituck
John Carlos Wood (Jan., 1957)	Hayesville
Nathan Wilbur Worslev, II (May, 1957)	Oak City

BACHELOR OF SCIENCE IN HORTICULTURE

† Hanna Nouri Daoud (May, 1957)	Mosul, Iraq
Lewis Stillman Howe, Jr. (May, 1957)	Greenville
Donald Elmer Hudson (May, 1957)	Zirconia
Charles Armon Jackson (May, 1957)	Benson
† Joseph Donald Laughter (May, 1957)	Hendersonville
Keith Stewart Mason (May, 1957)	Newport
Roderick Harvey Morris (May, 1957)	Maxton
Bobby Lee Strother (May, 1957)	Cary
† John Carlos Wood (May, 1957)	Hayesville

BACHELOR OF SCIENCE IN MECHANIZED AGRICULTURE

Justus Murray Ammons (May, 1957)	Mars Hill
James Patterson Gibson (May, 1957)	Laurinburg
Cecil Conway Goode, Jr. (Jan., 1957)	Boiling Springs
Richard Palmer Johnson (Aug., 1956)	Bayboro
Willie Leonard Kilian, Jr. (May, 1957)	Ridgeway
Edward Seawell Massenburg (May, 1957)	Raleigh
Mack Thomas Ruffin, III (Jan., 1957)	Tarboro

BACHELOR OF SCIENCE IN POULTRY SCIENCE

Robert Edwin Bass (May, 1957)	Roxboro
Richard Herbert Hapward, Jr. (May, 1957)	Bloomfield, N. J.
Paton Holmes Kelley (Jan., 1957)	Wallace
Palmer Wilson Lee (May, 1957)	Marshville
Ottis Carl Price (May, 1957)	Whiteville
Everett Burner Solomon, Jr. (May, 1957)	North Wilkesboro
Richard Clay White (May, 1957)	Danville, Va.

BACHELOR OF SCIENCE IN RURAL SOCIOLOGY

Robert Dunlap Emerson (Jan., 1957) Siler City

BACHELOR OF SCIENCE IN SOILS

John Alton Carpenter, Jr. (Jan., 1957) Cherryville
 Henry Francis Carter, Jr. (May, 1957) Maxton
 Emerson Bernard Deese, Jr. (May, 1957) Monroe
 Marion Arnold Hawkins (May, 1957) Sandy Ridge
 Robert Reeves Hyatt (May, 1957) Bryson City
 John Haywood Lane, Jr. (May, 1957) Stantonburg
 Eduardo Mosquera Pardo (Jan., 1957) Caracas, Venezuela
 Wilton Uzzle Smith (Jan., 1957) Louisburg
 *Sorasith Vacharotayan (Jan., 1957) Bangkok, Thailand

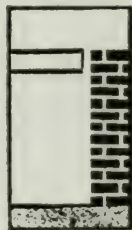
BACHELOR OF SCIENCE IN WILDLIFE CONSERVATION AND MANAGEMENT

Thomas Henry Briggs, Jr. (May, 1957) Raleigh
 Walter Keith Byrd (Jan., 1957) Albemarle
 William Capers Carnes, Jr. (Jan., 1957) Hamlet
 Norman Robert Conover (May, 1957) Atlantic Highlands, N. J.
 James Relmond Davis (Jan., 1957) Vass
 †Billy Lee Moore (May, 1957) New Bern
 John Linwood Perkinson (May, 1957) Norlina

BACHELOR OF SCIENCE IN ZOOLOGY

Robert Sloan Hardwick (Aug., 1956) Wrightsville Beach
 Carmine Franklin Nicholas (May, 1957) Concord
 †Ernest Tilghman Poole (May, 1957) Raleigh

School of Design



BACHELOR OF ARCHITECTURE

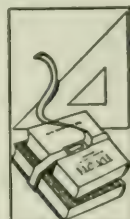
†Robert Paschal Burns, Jr. (May, 1957) Roxboro
 Charles Donald Davidson (May, 1957) Pontiac, Mich.
 William Waldo Dodge, III (May, 1957) Asheville
 †Bertram Ellentuck (May, 1957) Woodbridge, N. J.
 Lucius Russell Evans (May, 1957) Raleigh

Warren Elliott Hargett (May, 1957)	Kinston
•Donald Henry Harms (Jan., 1957)	Chicago, Ill.
†Edwin Freeland Harris, Jr. (May, 1957)	Elkin
Max Isley (May, 1957)	Burlington
†Irwin Eugene Jones (May, 1957)	New York, N. Y.
Frederick Wayne Koontz (May, 1957)	Salisbury
Truman Leo Newberry (July, 1956)	Raleigh
John Denning Pearman (July, 1956)	Goldsboro
Gordon Bernard Sherman (May, 1957)	Gastonia
Nomeriano Santos Son (May, 1957)	Manila, Philippines
John Thomas Wall (May, 1957)	Burlington
James Russel Washburn, Jr. (May, 1957)	Lake Lure
Charles Edward Woodall (May, 1957)	Smithfield
Norman Leo Zimmerman (May, 1957)	High Point

BACHELOR OF LANDSCAPE ARCHITECTURE

Edward White Avent, III (May, 1957)	Raleigh
Walter Taft Bradshaw (May, 1957)	Wilmington
Loddie Daniel Bryan, Jr. (May, 1957)	Sanford
Dorothy Jean Morton (May, 1957)	Raleigh

School of Education



BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

‡Omega Clark Abbott (May, 1957)	Henderson
Rex Frank Ashburn (Jan., 1957)	King
James Speight Batts (May, 1957)	Rocky Mount
Thurman Elwood Brock (July, 1956)	Wade
Billy Harold Brown (May, 1957)	Selma
George Edmund Bullard (July, 1956)	Wade
James Olin Coleman (Jan., 1957)	Asheville
†Lewis Walker Cress (May, 1957)	Concord
Herman Green Croom, Jr. (May, 1957)	Ayden
Wayland Delano Currie (Jan., 1957)	Whiteville
Robert Lewis Dunigan (Jan., 1957)	Burgaw
†William Jennings Feimster (May, 1957)	Union Grove
Tommy Delton Glover (Jan., 1957)	Bailey
James William Gore (Jan., 1957)	Tabor City

Creighton Lee Gupton (May, 1957)	Castalia
*Richard Chap Hampton (May, 1957)	Stratford
Clarence Elton Harris (May, 1957)	Arcola
Willis Paul Harris, Jr. (July, 1956)	Robersonville
Clifford W. Holdsclaw (Jan., 1957)	Sherrells Ford
Melvin Edgar Howell (May, 1957)	Tyner
William Robert Huff (July, 1956)	Roxboro
Charles Little Keels (July, 1956)	Monroe
Thomas Stephenson Keith (Jan., 1957)	Fuquay Springs
Benjamin Franklin Kissam (Aug., 1956)	Evergreen
Otha Gene Langley (May, 1957)	Rocky Mount
†Kilby Chesley Lanier (May, 1957)	Chinquapin
Charles James Law, Jr. (May, 1957)	Pelham
Larry Keith Linker (May, 1957)	Concord
Ellis Baxter Lyda (May, 1957)	Hendersonville
Robert Allen Mahaffey (May, 1957)	Winston-Salem
Lineous Beaman Nance (Aug., 1956)	Cerro Gordo
James Winton Odham (Jan., 1957)	Gritton
William Roland Perrell (Jan., 1957)	Woodleaf
Thomas Berkley Pryor (May, 1957)	Edneyville
†John Marion Radford (May, 1957)	Selma
William Joseph Reavis (Jan., 1957)	Angier
Russell Leo Roberson (May, 1957)	Williamston
Kermit Ives Sadler (May, 1957)	Merritt
Jack Savage (Jan., 1957)	Council
Wayne Paysour Smith (May, 1957)	Troutman
Garland Everette Still, Jr. (Jan., 1957)	Kings Mountain
†Paul Samuel Stone (May, 1957)	Louisburg
John Devereux Sugg (May, 1957)	Snow Hill
William McNeil Turner (May, 1957)	Yanceyville
Peter Doub Tuttle (May, 1957)	Pfafftown
Elbert Upton (May, 1957)	Forest City
Calvin Glenn Warren (July, 1956)	Pendleton
William Braxton Williams (July, 1956)	Wade
Stacy Morris Woodall (May, 1957)	Benson
Garland Woody (May, 1957)	Bryson City

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

Frank Alderman Crawford (Jan., 1957)	Chadbourn
Albert Dominick D'Angelo (Jan., 1957)	Crabtree, Penn.
James William Dempsey (May, 1957)	Winterville
William Horace Foushee, Jr. (May, 1957)	Raleigh
John Randolph Green (May, 1957)	Tarboro
Richard Patrick Hickey (Jan., 1957)	Raleigh
Thomas Vann Hollowell (July, 1956)	Hobbsville
Edward Clarke Horner, Jr. (Aug., 1956)	Oxford
James Theodore Maddrey, Jr. (Jan., 1957)	Raleigh
Nathaniel Henry Moore, Jr. (Jan., 1957)	Washington
Robert Allan Mullen (May, 1957)	Winston-Salem
Thomas Pettigrew (May, 1957)	Asheville
William Walston Sharber (Jan., 1957)	Elizabeth City
Jimmie Ray Smyre (May, 1957)	Hickory
†Thomas Darrell Spencer (May, 1957)	Lexington
Walter Henry Spivey (Jan., 1957)	Garner
Wyatt Richard Stallings (May, 1957)	Pinetops
Jack Edwin Steele, Jr. (May, 1957)	Burlington
John Joseph Szuchan (May, 1957)	Phoenixville, Penn.

Warner Lloyd Thrower (Jan., 1957)	Rocky Mount
James Calvin Tucker (July, 1956)	Monroe
Thurman Haywood Walls, Jr. (May, 1957)	Forest City
Benjamin Davis Webb (Jan., 1957)	Roanoke Rapids
John Robert Zubaty, Jr. (Jan., 1957)	Brenizer, Penn.

BACHELOR OF SCIENCE IN INDUSTRIAL EDUCATION

Lynwood Green Satterfield (May, 1957)	Durham
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BACHELOR OF SCIENCE IN INDUSTRIAL AND RURAL RECREATION

Jimmie Gray Armstrong (Jan., 1957)	Rocky Mount
†Ronny Leonard Brooks (May, 1957)	Carthage
Jackie Burgess (May, 1957)	Huntersville
Edward Harrison Cothran (May, 1957)	Raleigh
‡Hardy Croom, III (May, 1957)	Hopewell, Va.
Clyde Humphrey Gaddy (Jan., 1957)	Arlington, Va.
Gerald Gordon Hawkins (May, 1957)	Salisbury
Cecil Dillard Kirby (Aug., 1956)	Dunn
David McGill McGuire (May, 1957)	Canton, O.
Colbert Farrar Micklem (Jan., 1957)	Hopewell, Va.
Michael Anthony Nardone, Jr. (Jan., 1957)	Peekskill, N. Y.
Robert Dale Noble (May, 1957)	Charlotte
†David Vance Odom (Jan., 1957)	Plumtree
Edward Rizoti, Jr. (May, 1957)	High Point
Wilfred Michael Shea (Jan., 1957)	Raleigh
Richard Allen Tonn (Jan., 1957)	Cleveland, O.
Robert Edward West (Jan., 1957)	Alexandria, Va.
William Pudley Whitley (Jan., 1957)	Pinetops
Charles Edward Wyant (May, 1957)	White Hall, Va.

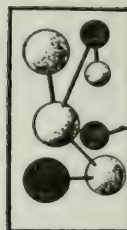
BACHELOR OF SCIENCE IN MATHEMATICS EDUCATION

Daniel Malotha Bowen (Aug., 1956)	Williamston
William Latham Copeland (May, 1957)	Pantego
Pryor Wilson James (Jan., 1957)	Richmond, Va.
‡James Turner Rose (May, 1957)	Louisburg
David Carroll Rosser, Jr. (May, 1957)	Prospect, Va.
†Wayne Wesley Thomas (May, 1957)	Apex

BACHELOR OF SCIENCE IN SCIENCE EDUCATION

Richard Joyner Brooks (May, 1957)	Raleigh
James Bratcher Jones, Jr. (Jan., 1957)	Rock Hill, S. C.
†Mary Ambrose Pledge (Jan., 1957)	Richmond, Va.
†Bobbie Catherine Whitley (Jan., 1957)	Raleigh

School of Engineering



BACHELOR OF CERAMIC ENGINEERING

‡John Lee Freeman (May, 1957) Hendersonville

BACHELOR OF CHEMICAL ENGINEERING

William Arthur Atkinson, Jr. (May, 1957) Jonesville, Wisc.
 Rush Walton Bondurant, Jr. (May, 1957) Williamston
 Jack Wayne Carlyle (May, 1957) Holly Ridge
 ‡Robert Reid Cooke (May, 1957) Asheboro
 John Wesley Cowand, Jr. (May, 1957) Windsor
 ‡Morris Ray Curry (May, 1957) Greensboro
 Harry Kale Goodman (Aug., 1956) Gold Hill
 Wilbur Kent Greer (May, 1957) Old Fort
 Thomas Arthur Groce, III (May, 1957) Asheville
 Donald Osborne Heafner (May, 1957) Belmont
 David Arthur Heinzmann (May, 1957) Rock Hill, S. C.
 William Chreston Holoman (May, 1957) Raleigh
 Daniel Vernon Knight (May, 1957) Pantego
 Jane Asbill Land (May, 1957) York, S. C.
 Lunsford Hoxsey Lewis (Jan., 1957) Elkton, Va.
 Michael Anderson Mason, Jr. (May, 1957) Beaufort
 Jack Reid Misenheimer (May, 1957) Salisbury
 William Faison Murphy, III (May, 1957) Philadelphia, Penn.
 Addison Keith Phifer (Jan., 1957) Marshville
 Luther Cabel Powell, III (May, 1957) Greenville
 George Maxwell Robertson (May, 1957) Asheville
 ‡Lewis Charlie Toney (May, 1957) Mooresville
 ‡Oren Harry Wagner (May, 1957) Taylorsville
 Lewis Calvin Wright (Jan., 1957) Asheville

BACHELOR OF CIVIL ENGINEERING

Larry Douglas Almond (May, 1957) Albemarle
 John Barchiesi (May, 1957) Greensburg, Penn.
 Earl Stewart Baxter (May, 1957) Russellton, Penn.
 ‡Richard Moore Beam (May, 1957) Shelby
 William Isaac Bigger, Jr. (Jan., 1957) Belmont
 ‡James Leo Burton, Jr. (May, 1957) Roanoke Rapids
 Ned Oliver Chapman (May, 1957) Morganton
 William Earl Cochran, Jr. (May, 1957) Concord
 James Robert Davis (May, 1957) Hillsboro
 William Louis Dudley (May, 1957) Roxboro
 Gary Eugene Everhardt (May, 1957) Lenoir
 Robert Meredith Gunn (May, 1957) Charlotte
 Norman Eugene Guthrie (May, 1957) Salisbury

Thomas Marion Hargrove (May, 1957)	Graham
William Henry Herring, Jr. (May, 1957)	Gastonia
Emanuel Kenneth Hoffman (May, 1957)	Gold Hill
Robert Douglass Holmes (May, 1957)	Henderson
†Robert Elmer Jobe (May, 1957)	Elm City
†David Harris Kersey (May, 1957)	Greensboro
†George Terrell Lathrop (May, 1957)	Asheville
Anthony Leone (May, 1957)	Bronx, N. Y.
Harold Luther Martin (May, 1957)	High Point
George Michael Meyer, III (May, 1957)	Charlotte
Bob Spencer Morton (May, 1957)	Albemarle
Bernice Wilbur Odin (May, 1957)	Wilmington
‡Harold Eugene Ours (May, 1957)	Moorefield, W. Va.
John Buxton Parker (May, 1957)	Elizabeth City
Robert Dail Parker, Jr. (May, 1957)	Roanoke Rapids
†Ira Whitener Pearce (May, 1957)	Hickory
Dow Vick Perry (May, 1957)	Louisburg
Max Randall Phillips (May, 1957)	Franklin
Jackie Hadley Potter (May, 1957)	Kinston
Richard Alexander Reynolds (May, 1957)	Wadesboro
Erastus Edwin Rose (May, 1957)	Newton Grove
Daniel Alphous Safriet, Jr. (May, 1957)	China Grove
†Hugh Milton Sanderson (May, 1957)	Erwin, Tenn.
†Ronald Vernett Sharpe (May, 1957)	Burlington
John Lytton Smith, Jr. (May, 1957)	Concord
Nathan Carlton Spivey (Jan., 1957)	Hertford
†Vassilios John Staikidis (May, 1957)	Athens, Greece
William Henry Stocks (May, 1957)	Leaksville
Robert Walter Thompson (May, 1957)	Greensboro
Charles Benford Thornton (May, 1957)	Jacksonville, Fla.
Joseph Ralph Warlick, Jr. (May, 1957)	Concord
†Ted Lewis Waters (May, 1957)	Roanoke Rapids
Cohen O'Neal White (May, 1957)	Windsor
Gerald Milton White (May, 1957)	Pittsboro
Donald Carr Winchester (May, 1957)	Augusta, Ga.
Hugh Winn, Jr. (May, 1957)	High Point
James Robert Wright (May, 1957)	Hendersonville
Richard Houser Yount (May, 1957)	Hickory

BACHELOR OF CIVIL ENGINEERING, CONSTRUCTION OPTION

Robert William Becker (May, 1957)	Newark, N. J.
†Joseph Marion Borik (May, 1957)	Corvallis, Ore.
Jimmy Stephen Caddell (Jan., 1957)	Sanford
Robert Rex Carpenter (May, 1957)	Peachland
†William Raymond Clary, Jr. (May, 1957)	Raleigh
†William Harp Dunn (May, 1957)	Statesville
Freda Leroy Johnson (May, 1957)	Benson
William McIntoch McClure (Jan., 1957)	Charlotte
David Lester Mace (May, 1957)	Lincolnton
Raymond Henry Steinberg (May, 1957)	Chattanooga, Tenn.
James Ross Sykes (May, 1957)	Wallace
Ted Hollon Tyson (May, 1957)	Monroe
Paul Julian Wicker (May, 1957)	Cameron

BACHELOR OF SCIENCE IN CONSTRUCTION

John Mark Beam, Jr. (May, 1957)	Vale
John Franklin Hickman, III (May, 1957)	Raleigh

BACHELOR OF ELECTRICAL ENGINEERING

†James Calvin Belote (May, 1957)	Newport News, Va.
†James Solomon Bizzell (May, 1957)	Mount Olive
David Harrison Black, Jr. (May, 1957)	Rockingham
John Albert Brockwell (May, 1957)	Raleigh
James Oliver Brooks (May, 1957)	Brevard
Roger Dan Brown (May, 1957)	Gastonia
†Gary Jackson Casey (May, 1957)	Dudley
Richard Adrian Cauble (May, 1957)	Salisbury
Preston Andrew Collins (May, 1957)	Maysville
Hamilton Corey, Jr. (May, 1957)	Raleigh
Robert Cornwell, Jr. (May, 1957)	Southern Pines
Charlie Odell Dowd (May, 1957)	Gibsonville
James Thurman Emery (May, 1957)	Raleigh
Winfield Harrison Farthing (May, 1957)	Boone
Knut Fasting (May, 1957)	Oslo, Norway
William Franklin Fleming, III (May, 1957)	Salisbury
Joe Presson Freeze (May, 1957)	China Grove
Thomas Winfred Frye (May, 1957)	Mt. Airy
Craig Coleman Galloway (May, 1957)	Greensboro
Claude Eugene Green (May, 1957)	Winston-Salem
Leonard Clyde Hoots (May, 1957)	Hendersonville
William Edward Howard (May, 1957)	Kannapolis
Larry Bruce Hudson (May, 1957)	Maiden
James Patrick Huffstetler (May, 1957)	Gastonia
Rafiollah Javid (May, 1957)	Teheran, Iran
James Edward Key (May, 1957)	Mount Airy
Johnny Braskal Knight (May, 1957)	Albemarle
Hal Thomas Leach (May, 1957)	Statesville
Louis Richard Ledbetter (May, 1957)	Greensboro
†Ashley Gray Leggett, Jr. (May, 1957)	Washington
†Samuel Fritz McGeiver (May, 1957)	Asheboro
Floyd Allen McLaurin (May, 1957)	Fayetteville
Morgan Turlington Massey (May, 1957)	Charlotte
William Thomas Meeks (May, 1957)	Wadesboro
George John Meyer, Jr. (May, 1957)	Raleigh
Thomas Dalton Miller, III (May, 1957)	Mooreville
Donald Lee Moore (May, 1957)	Burlington
Ernest George Moore (May, 1957)	Washington, D. C.
Joel Von Perry (May, 1957)	Morganton
Frank Colby Pethel, Jr. (May, 1957)	Kannapolis
Robert Hoyt Powell (May, 1957)	Roanoke Rapids
†Jack Cameron Pritchard (May, 1957)	Siler City
†Philip Roland Pruna (May, 1957)	Burlington
Edward Tyree Pullman (May, 1957)	Durham
James Andrew Purser, Jr. (Jan., 1957)	Charlotte
Jerry Lee Rasor (May, 1957)	Raleigh
†Morris Ratliff (May, 1957)	Hallsboro
Thomas Davis Ratliff (May, 1957)	Rockingham
†Graz Linwood Roberts, Jr. (May, 1957)	Fairfield
William Gray Robertson, Jr. (May, 1957)	Havelock
James Dillon Roland (May, 1957)	Winston-Salem
Courtney Inez Sadler (May, 1957)	Littleton

Lester Bernard Sarter (May, 1957)	Brooklyn, N. Y.
†Reeves Thomas Shepherd (May, 1957)	Laurel Springs
Lamont Allen Shinn (May, 1957)	Warwick, Va.
†June Singletary, Jr. (May, 1957)	Bladenboro
William Clifton Slater (Aug., 1956)	Durham
Larry Eugene Sloop (May, 1957)	High Point
Walter Devaun Stanaland (May, 1957)	Thomasboro
†Henry Livingston Steele (May, 1957)	Hickory
†Hugh Foch VanLandingham (May, 1957)	Greensboro
Vernon Aiken Vaughn (May, 1957)	Greensboro
Reginald Rudolph Vinson (May, 1957)	Knightdale
Jimmy Garland Westbrook (May, 1957)	Kinston
‡William Deems Wilkinson (May, 1957)	Greensboro
James Allen Williams (May, 1957)	Morganton
Leon Braxton Williamson (May, 1957)	Lucama

BACHELOR OF ENGINEERING MATHEMATICS

†George Bennett Cline, Jr. (May, 1957)	Chapel Hill
†James Frederick Dalby (May, 1957)	Norfolk, Va.

BACHELOR OF SCIENCE IN FURNITURE MANUFACTURING AND MANAGEMENT

Jerry Mack Absher (May, 1957)	N. Wilkesboro
Charles C. Bassett (Jan., 1957)	Bassett, Va.
†Don Louis Birch (May, 1957)	Raleigh
Joseph Wayne Burris (May, 1957)	Lincolnton
Charles McKendree Carter (Jan., 1957)	Morganton
Emil Cohn, III (May, 1957)	Philadelphia, Penn.
†Harry Edward Epps (Jan., 1957)	Wilson
William Peter Garrabrant (May, 1957)	Wilmington
Charles Richard Hardy (May, 1957)	Franklin, Va.
Charles Simon Heyman, Jr. (May, 1957)	Rome, Ga.
Charles Thomas Isom (May, 1957)	High Point
Jerry Allen McIntosh (May, 1957)	New Bern
Victor Aurel Molodet (May, 1957)	E. Chicago, Ind.
†William Dudley Moore (May, 1957)	North Wilkesboro
Samuel Hodges Moss, Jr. (May, 1957)	Wilson
Allen Frazier Myers (Jan., 1957)	Badin
Arthur Grier Park (Jan., 1957)	Oxford
†John Robert Shanks (Jan., 1957)	Jonesboro, Tenn.
‡Edward Andrew Shook, Jr. (May, 1957)	North Wilkesboro
James Alexander Sutherland (Jan., 1957)	Statesville
Charles Theodore Walker, Jr. (May, 1957)	Rocky Mount
Thomas Henry Weir, Jr. (Jan., 1957)	Charlotte

BACHELOR OF GEOLOGICAL ENGINEERING

Wilbur Elmo Anderson (May, 1957)	Leggett
Roy Otho Fagan, Jr. (May, 1957)	New Bern

BACHELOR OF SCIENCE IN HEATING AND AIR CONDITIONING

James Dortch Belote (May, 1957)	Goldsboro
Harry Anderson Blount, Jr. (May, 1957)	Salisbury

James Hamlin Cheatham, Jr. (May, 1957)	Smithfield
Jerry Godfrey Daye (May, 1957)	Kannapolis
Darald Clinton Frink (May, 1957)	Shallotte
James Clyde Godwin (July, 1956)	Wilmington
J. Lee Hauser (May, 1957)	Rural Hall
Allen Reese Hunter (July, 1956)	Pilot Mountain
Ned Garrett Johnson (May, 1957)	Shelby
Richard Earl Moser (May, 1957)	Asheville
Finley Pace, Jr. (May, 1957)	Hendersonville
Paul Kinley Tuggle (May, 1957)	Kannapolis
John Thomas Walton (May, 1957)	Salisbury
Lawrence Edwin Watkins (May, 1957)	Raleigh

BACHELOR OF INDUSTRIAL ENGINEERING

Augustus Walker Bachman, Jr. (Jan., 1957)	Henderson
Joel Conyers Bennett, Jr. (May, 1957)	Hamlet
Carson Alton Blue, Jr. (Jan., 1957)	Southern Pines
†Zenas Boling (Jan., 1957)	Gastonia
†William Thomas Bradford, Jr. (May, 1957)	Charlotte
John Burts Bryant (May, 1957)	Wilmington
Richard Earle Bryant (May, 1957)	Brevard
Walter Cornelius Cagle (May, 1957)	Greensboro
†John Leonard Colley, Jr. (May, 1957)	Wilmington
Wilbur Leslie Corson (May, 1957)	Richmond, Va.
Gene Carroll Davis (May, 1957)	Gastonia
Robert Burnell Deal (May, 1957)	Hickory
Alex McEachern Efird (May, 1957)	Wilmington
Alphonse Ralph Fiore (May, 1957)	Brooklyn, N. Y.
Wallace Euin Ford (Jan., 1957)	Charlotte
Davey Gray Hampton (May, 1957)	Winston-Salem
Thomas Bulluck Hawkins, Jr. (May, 1957)	Wilmington
Juan Eduardo Hisada (May, 1957)	Raleigh
Elijah Talmage Holt (July, 1956)	Gretna, Va.
Charles Belay Hummel (May, 1957)	Mountain Lakes, N. J.
Harvey James Jackson, Jr. (Jan., 1957)	Oxford
William Michael Joyce (May, 1957)	Winston-Salem
Charles Livingston Justus (July, 1956)	Hendersonville
Richard Peatross Kelley (May, 1957)	Winston-Salem
Joseph Robert Lancaster (Jan., 1957)	Mebane
†William Dennis Lawing, Jr. (May, 1957)	Charlotte
James Hampton McKenzie (May, 1957)	Gastonia
Fred Elliott Marshall (July, 1956)	White Plains
Gene Anderson Mills (May, 1957)	Watha
James Martin Nolan (May, 1957)	Shannon
Harold Thomas Reed (May, 1957)	Sylva
George Fletcher Reeves, Jr. (May, 1957)	Morganton
Thomas Hyman Rose (May, 1957)	Rocky Mount
Joseph Edgar Settle (May, 1957)	Ronda
David Daniel Smiley, Jr. (May, 1957)	Salisbury
James Edward Thomas (May, 1957)	High Point
Theodore Havard Walker (Jan., 1957)	Statesville
William Edward Walker (May, 1957)	Raleigh
Guy Warrick (May, 1957)	Raleigh

James Harvey Wilkie (May, 1957)	Rutherfordton
Herbert Herron Williams, Jr. (May, 1957)	Maxton
Thomas Macon Womble, Jr. (Jan., 1957)	Wilmington
Willy German Yamamoto M. (Jan., 1957)	La Paz, Bolivia

BACHELOR OF MECHANICAL ENGINEERING

†James Richard Agar (May, 1957)	Pittsfield, Mass.
James Edward Arrington (May, 1957)	Waynesville
†William Everett Billingsley (May, 1957)	Hamlet
Marvin McCabe Breeze, Jr. (May, 1957)	Durham
David Harold Briles (May, 1957)	Asheboro
George Trescot Brown (May, 1957)	Charlotte
John Wister Brown (May, 1957)	Gastonia
Steve Kelly Brown (May, 1957)	Hendersonville
William Gilbert Browning (May, 1957)	Hickory
Roy Wiggins Carnes (May, 1957)	Whiteville
Willis Isom Crumpler, Jr. (May, 1957)	Watha
Kenneth Myron Daber (May, 1957)	Mount Airy
Reeves Ketner Davis (May, 1957)	Candler
†Thomas Safrit Davis (May, 1957)	Cliffside
†Alton Keith Dickens (Aug., 1956)	Roanoke Rapids
†Philip DiNardo (May, 1957)	Philadelphia, Penn.
Charles Edward Dusenbury (May, 1957)	Wilmington
Charles Fielding George (Jan., 1957)	Greensboro
Robert Trevy Gladwell, Jr. (May, 1957)	Greensboro
Donald DeArmon Grey (May, 1957)	Charlotte
†Elliot Brewer Grover (May, 1957)	Raleigh
Irfan Mehmet Guner (May, 1957)	Zonguldak, Turkey
Edward Dewitt Gurley (May, 1957)	Forest City
Paige Nelson Hall (May, 1957)	Mount Holly
†William Alvin Hall (May, 1957)	Raleigh
Ghazi Ismail Hamad (May, 1957)	Rocky Mount
George Glenn Hatch (May, 1957)	Mount Olive
Joseph Anderson Helm, Jr. (May, 1957)	Union, W. Va.
William Jacob Hollenbeck (May, 1957)	Ft. Bragg
Charlie Hamilton Honeycutt (May, 1957)	Salisbury
†John H. Isiminger (May, 1957)	Winston-Salem
James Vinson Johnson, Jr. (May, 1957)	Kenly
Joseph William Kapherr (May, 1957)	Creedmoor
Ronald David Kincaid (May, 1957)	Kings Mountain
John Marshall Lake (May, 1957)	Charlotte
†Robert Lee Lawrence (May, 1957)	Winston-Salem
†John Young Lomax (May, 1957)	Guilford College
*Edwin Buchanan Lyon (May, 1957)	Durham
Ernest Theron Miller, Jr. (May, 1957)	Hickory
†Wade Thomas Parker, Jr. (Jan., 1957)	Fayetteville
Dwight Lee Payne (May, 1957)	High Point
Reuben Elliott Payne, Jr. (May, 1957)	Manteo
†William Donnie Porter (May, 1957)	Fayetteville
Richard Lee Ramey (May, 1957)	Danville, Va.
Charles Russell Reed (May, 1957)	Forest City
Argyle Campbell Skinner (May, 1957)	Georgetown, S. C.
Billy Norfleet Smith (May, 1957)	Salisbury
†Edwin Blean Smith (May, 1957)	Black Mountain
Henry Vann Stanfield (May, 1957)	Brown Summit
†Ernest Max Sternberg (May, 1957)	Raleigh
Clement John Swan, Jr. (May, 1957)	Pittsburgh, Penn.

Henry Joe Taylor (May, 1957)	Charlotte
Richard Alan Teague (May, 1957)	Greensboro
Fred Thomas Teal, Jr. (May, 1957)	Wadesboro
† Thomas David Watson (May, 1957)	Moncure
‡ Pritchard Hunter White (May, 1957)	Winston-Salem
† Gayle Madison Wylie (May, 1957)	Shelby

BACHELOR OF MECHANICAL ENGINEERING, AERONAUTICAL OPTION

Kenneth Baird Alexander (May, 1957)	Wilmington
‡ Robert Merrill Bennett (May, 1957)	Weaverville
William Bennett Bullock (May, 1957)	Roanoke Rapids
Harvey Clarke Carroll, Jr. (May, 1957)	Hamlet
‡ Kenneth Wesley Cowans (May, 1957)	Hicksville, N. Y.
William Kenneth Creasy (May, 1957)	Gibsonville
Perry Lee Deal (May, 1957)	Landis
† John William Frye, Jr. (May, 1957)	Aberdeen
Billy Maurice Haney (May, 1957)	Canton
Jesse Worsley Harrell, Jr. (May, 1957)	Roanoke Rapids
David Bryant Haswell (July, 1956)	Northampton, Mass.
Jerry Powell Miller (May, 1957)	Lenoir
Lawrence Wilson Oliver (May, 1957)	Southern Pines
† David Joe Pierce (May, 1957)	Reidsville
David Hunter Pittard (May, 1957)	Raleigh
Charles Lewis Ribelin (May, 1957)	Salisbury
Glenn Harold Sutton (May, 1957)	Raleigh
Roy C. Thomas (Aug., 1956)	Statesville
James Herbert Todd, Jr. (Aug., 1956)	Rye, N. Y.
‡ James Edward Wallace (May, 1957)	Miami, Fla.
Fred Douglas Wood, Jr. (May, 1957)	Wadesboro

BACHELOR OF METALLURGICAL ENGINEERING

Cedric Duane Beachem (May, 1957)	Beaufort
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BACHELOR OF NUCLEAR ENGINEERING

Francis Marion Alcorn (May, 1957)	Raleigh
† David Ernest Bailey (May, 1957)	Southern Pines
† Harry Rudolph England, Jr. (May, 1957)	Cambridge, Mass.
Terry Lee Hershey (May, 1957)	Morris Plains, N. J.
† Wilson Durward Leggett, III (May, 1957)	Tarboro
Peter Edward McElligott (May, 1957)	Vestal, N. Y.
Charles Moore Martin (May, 1957)	Danbury
† Robin A. Mickle (May, 1957)	Winston-Salem
John Benjamin Perry, III (Jan., 1957)	Roanoke, Va.
† Bobby Emerson Phillips (May, 1957)	Bakersville
Edmond Joseph Pierczynski (May, 1957)	Charlotte
† Joe Wilson Reece (May, 1957)	Booneville
† Albert Sidney Roberts, Jr. (May, 1957)	Washington
James Burton Smathers (May, 1957)	DeLand, Fla.
‡ John Whitaker Stephenson, Jr. (May, 1957)	Raleigh
Andrew Charles Vastano (Aug., 1956)	Winston-Salem
† Fred Griffith Welfare (May, 1957)	Clemmons
Herbert Lafayette Whitener (May, 1957)	Greensboro
Coleman Morrison Whitlock (Aug., 1956)	Mount Airy
James Bethel Wright (May, 1957)	Holly Springs
† Woodford William Zachary (May, 1957)	Washington, D. C.

School of Forestry



BACHELOR OF SCIENCE IN FOREST MANAGEMENT

Stanford Morgan Adams (May, 1957)	Four Oaks
Pierre Maurice Boulogne, Jr. (May, 1957)	Norfolk, Va.
Gordon Lee Butler, Jr. (May, 1957)	Andrews
Donald Spencer Calderon (Jan., 1957)	Bronx, N. Y.
Victor Gerald Dowless (May, 1957)	Elizabethtown
†Clarence Avery Duckworth (Jan., 1957)	Morganton
Jack Dean Edwards (May, 1957)	Pisgah Forest
Joe Brandon Emory (May, 1957)	Asheville
George Sabin Gibbs (May, 1957)	Chevy Chase, Md.
Claude Adams Hood (Aug., 1956)	Johnson City, Tenn.
Samuel Thomas Hudson, Jr. (Jan., 1957)	Oak Tree, N. J.
Jack Steward Kelley (May, 1957)	Logan, W. Va.
William Benton McKenzie (May, 1957)	Rockingham
Charlie Ray Norton (May, 1957)	Highlands
Ronald George Norwood (May, 1957)	Raleigh
Joel Ray Parker (May, 1957)	Charlotte
John Uzzell Perry (Jan., 1957)	Louisburg
†Paul John Pickenheim (May, 1957)	Tamaqua, Penn.
Cleveland Milton Price, Jr. (May, 1957)	Prospect, Va.
Wilbur Ralph Stevens (May, 1957)	Sanford
‡James Conrad Stevenson (May, 1957)	Clemson, S. C.
Ralph Pritchard Tayloe (May, 1957)	Aulander
Samuel Allen Taylor (May, 1957)	Washington
Zain-Abidin Hassan Terzi (May, 1957)	Kirkuk, Iraq
†Charles Donald Webb (May, 1957)	Clearwater, Fla.
Miles Jordan White, Jr. (May, 1957)	Windsor

BACHELOR OF SCIENCE IN PULP AND PAPER TECHNOLOGY

†William Parker Andrews (May, 1957)	Flat Rock
Vito A. Ciliberti, Jr. (May, 1957)	Olive Bridge, N. Y.
Richard Alton Crumpler (May, 1957)	Roanoke Rapids
†Horace William George, Jr. (May, 1957)	West Point, Va.

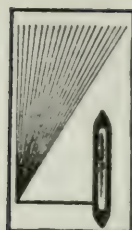
BACHELOR OF SCIENCE IN WOOD PRODUCTS MERCHANDISING

James Cooper Burns (July, 1956)	Metuchen, N. J.
Kenneth Vance Matthews (May, 1957)	Kernersville
James Alvin Morgan (May, 1957)	Asheville
Roger Alan Nelson (Jan., 1957)	Scarsdale, N. Y.
Robert Bridger Phelps (July, 1956)	Windsor
Richard Rollins Tighe (May, 1957)	Baltimore, Md.

BACHELOR OF SCIENCE IN WOOD TECHNOLOGY

Abdul Razzak Obead Al-Hadithy (May, 1957)	Haditha, Iraq
†Edward Joseph Lawson, Jr. (May, 1957)	Dublin, Ga.

School of Textiles



BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY

David Saul Bernzweig (May, 1957)	Brooklyn, N. Y.
†Victor Herbert Garrou (May, 1957)	Valdese
Richard Charles Jordan (May, 1957)	Cambria Heights, N. Y.
Roy Leon Luckenbach (May, 1957)	Winston-Salem
Kenneth Lockworth McKinney (May, 1957)	Greensboro
†Charles Frederick Mauney (May, 1957)	Kings Mountain
Charles Franklin Nimmo (Jan., 1957)	Greensboro
Vincent Thomas Novak (May, 1957)	Kenosha, Wisc.
†Frank Gustav Pielenz (May, 1957)	Wurtenberg, Germany
†Fred Manfred Rawicz (Jan., 1957)	Rego Park, N. Y.
Pedro Emilio Sylvester (May, 1957)	Lima, Peru
Kenneth Craven Williamson (May, 1957)	Wilmington

BACHELOR OF SCIENCE IN TEXTILES

Abdul Razak Adamjee (May, 1957)	Karachi, Pakistan
†Muhammad Salim Anwar (Jan., 1957)	Lyallpur, Pakistan
Hafiz Mohammad Ayyub (Jan., 1957)	Khan-pur, Pakistan
R. J. Basinger (July, 1956)	Rockwell
Rodney McNabb Bell (May, 1957)	Zebulon
Franklin Eugene Bozeman (May, 1957)	Charlotte
Paul Gyles Braxton (May, 1957)	Siler City
Walter Raymon Britland, Jr. (Jan., 1957)	Holyoke, Mass.
Robert Curtiss Britt (May, 1957)	Fayetteville
Garnett Tabor Brooks, Jr. (May, 1957)	Red Springs
Harold Wade Buchanan (May, 1957)	Roxboro
Larry Scott Buff (May, 1957)	Hickory
Bobby Edward Bunker (May, 1957)	Mount Airy
†Glenn Edward Carter (May, 1957)	Rockingham
Albert Cassuto (May, 1957)	Brooklyn, N. Y.
Jesse Chappell, Jr. (May, 1957)	Raleigh
Harry Frazier Cherkas (May, 1957)	Oxford
†David Thompson Church (May, 1957)	Stuart, Va.
†John Wesley Copeland (May, 1957)	Durham
John Allie Corbett, III (May, 1957)	Wilson
Alton Watkins Craven, Jr. (May, 1957)	Ramseur
Ronald Warren Crow (May, 1957)	Lexington
Robert George Currier (July, 1956)	Roxboro
Young Steele Davis, Jr. (Jan., 1957)	Statesville
†George Louie Deviney (Jan., 1957)	Spindale
James Archie Driggers (May, 1957)	Fayetteville
Jose Joaquin Escobar Ch. (Jan., 1957)	Medellin, Colombia
Wordest Ray Felts (May, 1957)	Roanoke Rapids
Charles Hugh Fisher (May, 1957)	Marshall

Warren Sullivan Fulton (May, 1957)	Laurinburg
Robert Irwin Giddins (May, 1957)	Belle Harbor, N. Y.
Renato J. Gomez G. (Jan., 1957)	Medellin, Colombia
† William Richard Greene (May, 1957)	Greensboro
Billy Joe Griffin (May, 1957)	Marshville
William Joseph Griswold (Jan., 1957)	Durham
Albert John Grunfeld (May, 1957)	Scranton, Penn.
Joe Webb Hamrick (May, 1957)	Chimney Rock
William Harold Hawkins, III (May, 1957)	Marion
James McRae Heustess (Jan., 1957)	Wilmington
Harold Clarke Hicks (Jan., 1957)	Henderson
John Caldar Hinson (May, 1957)	Monroe
Donald Elliott Hitchcock (May, 1957)	Charlotte
Almon Orland Holland (Jan., 1957)	Rutherfordton
John William Holmes (May, 1957)	Hertford
Bobby Lynwood Hubbard (May, 1957)	Charlotte
Mack McGuire Johnson (May, 1957)	Four Oaks
Ottis Lynn Koontz (July, 1956)	Leaksville
† * Photipong Lamsam (Jan., 1957)	Thonburi, Thailand
James Langston Law (May, 1957)	Reidsville
† Leonard Robert Lefkowitz (Jan., 1957)	Troy, N. Y.
Phil Emmanuel Lipe, Jr. (Jan., 1957)	Landis
James Franklin Locklear (Jan., 1957)	Laurinburg
James Livingston Lowe, Jr. (May, 1957)	Elkin
Thomas Milton McElhannon (July, 1956)	Asheboro
Phillip Edney McKenzie (May, 1957)	Asheville
John Robbins McLaughlin, Jr. (Aug., 1956)	Statesville
James Alexander McLean (July, 1956)	Waxhaw
Julian Fussell Marshall (May, 1957)	Smithfield
Henry Scott Martin (May, 1957)	Booneville
† Charles Frederick Mauney (May, 1957)	Kings Mountain
Joseph Henry Miller (Jan., 1957)	Rutherfordton
Roger LeRoy Morrow (May, 1957)	Burlington
Robert Francis Mozur (May, 1957)	Wilkes-Barre, Penn.
† Jimmie Dean Myrick (May, 1957)	Star
Alan Harvey Oremland (May, 1957)	Brooklyn, N. Y.
† David Lynwood Owens (May, 1957)	Wilson
Charles Robert Patterson, Jr. (May, 1957)	Hickory
Jordan Charles Ploch (May, 1957)	Normandy Beach, N. J.
Alvin Leigh Potts (May, 1957)	Goldsboro
† Henry Edward Protzmann (July, 1956)	Holyoke, Mass.
Everett Lee Pyatt (May, 1957)	Asheville
† Khalil-ur Rahman (Jan., 1957)	Karachi, Pakistan
Muhammad Ramzan (Jan., 1957)	Lyallpur, Pakistan
Wiley Theodore Rankin, III (May, 1957)	Gastonia
Robert Franklin Rhyne (Jan., 1957)	Ellenboro
Sheldon Howard Ritter (May, 1957)	Belle Harbor, N. Y.
† George William Roberson (May, 1957)	Forest City
Norman David Rosenstein (May, 1957)	Paterson, N. J.
Ahmed Mohamed Salem Gabr (July, 1956)	Alexandria, Egypt
George Basil Sarafidis (May, 1957)	Athens, Greece
† George R. Schofield Bonello (July, 1956)	Lima, Peru
David Edward Schreffler (May, 1957)	Raleigh
Rudolph Francis Schroeder (May, 1957)	Ozone Park, N. Y.
† Maqbool Ilahi Shaikh (Jan., 1957)	Lahore, Pakistan
William David Shipman, Jr. (May, 1957)	Blandenboro
George Robert Shirley (May, 1957)	Hickory
Howard Preston Short, Jr. (May, 1957)	Roanoke Rapids

Wayne Robert Simmons (May, 1957)	Stuart, Va.
Carroll Winfred Smith (May, 1957)	Raleigh
Dennis Holt Smith (May, 1957)	Monroe
Donald Jackson Stadler (Aug., 1956)	Reidsville
Max Randolph Steelman, Jr. (May, 1957)	Hickory
Ahmad Khan Syal (Jan., 1957)	Thang, Pakistan
Martin Herman Traumuller (May, 1957)	Teaneck, N. J.
Andrew Leon Tucker (July, 1956)	Durham
†David Walter Tuttle (May, 1957)	Hickory
†Lehman Donald Underwood (May, 1957)	Smithfield
William Alfred Underwood, III (May, 1957)	Asheboro
Carlos Vicente Uribe (May, 1957)	Medellin, Colombia
Arturo Ignacio Villar B. (May, 1957)	Havana, Cuba
John Waddington, Jr. (May, 1957)	Yonkers, N. Y.
Thomas Walter Whitehead (May, 1957)	Philadelphia, Penn.

Professional Degrees

CERAMIC ENGINEER IN CERAMIC ENGINEERING

Roy Bratton Moffitt (May, 1957)	Greensboro
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CIVIL ENGINEER IN CIVIL ENGINEERING, SANITARY OPTION

Darwin Lafayette Coburn (May, 1957)	Raleigh
James Desmond Simmons (Jan., 1957)	Ash

CIVIL ENGINEER IN CIVIL ENGINEERING, STRUCTURAL OPTION

Benjamin Louis Porter (Jan., 1957)	Kelly
James DeWitt Tapp, Jr. (May, 1957)	Raeford

ELECTRICAL ENGINEER IN ELECTRICAL ENGINEERING

*Robert Lee Clemons (May, 1957)	Columbia
Walker Howell Rayburn (July, 1956)	Elizabeth City
Maynard Graydon Thorne (May, 1957)	Farmville

INDUSTRIAL ENGINEER IN INDUSTRIAL ENGINEERING

Boyd Maxton Ward (Jan., 1957)	High Point
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Advanced Degrees



MASTER OF SCIENCE IN AGRICULTURAL AND BIOLOGICAL CHEMISTRY

•William Leon Ormand (Jan., 1957) Bessemer City

MASTER OF SCIENCE IN AGRICULTURAL ECONOMICS

James Robert Donald (Jan., 1957) Omega, Ga.

James Everett Martin (Aug., 1956) Greensboro

MASTER OF SCIENCE IN AGRICULTURAL ENGINEERING

Thomas Harold Garner (July, 1956) Asheboro

Wiley Hix Henson, Jr. (July, 1956) Ellijay, Ga.

MASTER OF SCIENCE IN ANIMAL ECOLOGY

•David Alvord Becker (Jan., 1957) Colorado Springs,, Colo.

MASTER OF SCIENCE IN ANIMAL INDUSTRY

Ernest Mauro Buck (May, 1957) Hartford, Conn.

David Frame Cox (May, 1957) Coventry, Conn.

James Roy Edwards (May, 1957) Waynesville

James Murray Leatherwood (Jan., 1957) Candler

William Lee Tucker (May, 1957) Finchville, Ky.

MASTER OF SCIENCE IN ENTOMOLOGY

•Avelino Eala Bigornia (Jan., 1957) San Pablo City, Philippines

David Len Bowen (May, 1957) Burgaw

MASTER OF SCIENCE IN EXPERIMENTAL STATISTICS

Miguel Angel Guzman (Jan., 1957) San Salvador, El Salvador

•Reuben Martt Harding (Jan., 1957) Herndon, Va.

David Charles Hurst (May, 1957) Bozeman, Mont.

Mohan Veerabhadra Pavate (Jan., 1957) Dharwar, India

MASTER OF SCIENCE IN FIELD CROPS

Ricardo Manzo Lantican (Aug., 1956) Los Banos, Philippines

Carl Duncan Price (May, 1957) Selma

George Franklin Thorne, Jr. (May, 1957) Fort Foote, Md.

MASTER OF SCIENCE IN GENETICS

Om Perakash Kamra (Aug., 1956) New Delhi, India

MASTER OF SCIENCE IN HORTICULTURE

Thomas Rhinehart Konsler (May, 1957) Henderson, Ky.

David Lewis Strider (May, 1957) E. Flat Rock

MASTER OF SCIENCE IN PLANT PATHOLOGY

Floyd Fuller Hendrix (May, 1957) Greenville

Marshall Ellis Mace (May, 1957) Raleigh

*Joseph Linward Perry (Jan., 1957) Cofield

William Morton Powell (May, 1957) Halifax, Va.

MASTER OF SCIENCE IN PLANT PHYSIOLOGY

George Maurice Cheniae (May, 1957) Raleigh

MASTER OF SCIENCE IN POULTRY SCIENCE

Bynum McKee Wood (Aug., 1956) Sandy Ridge

MASTER OF SCIENCE IN RURAL SOCIOLOGY

William Wiley Linder (Jan., 1957) Dublin, Ga.

MASTER OF SCIENCE IN SOILS

Vernal Henry Gledhill (Jan., 1957) Van Nuys, Calif.

Petezval De Oliveira E. Cruz Lemos (Aug., 1956) Rio de Janeiro, Brazil

James Tat Thorup (Jan., 1957) Covina, Calif.

Richard Maxwell Thorup (Jan., 1957) Covina, Calif.

MASTER OF SCIENCE IN WILDLIFE CONSERVATION AND MANAGEMENT

David Arthur Adams (May, 1957) Bay Village, O.

Walter Donald Baker (Jan., 1957) Four Oaks

John Broadus Funderburg (Jan., 1957) Wilmington

MASTER OF SCIENCE IN INDUSTRIAL PSYCHOLOGY

Arnold Collison Aspden (July, 1956) Winston-Salem

Robert Peter Cavalier (Aug., 1956) Palisade, N. J.

Anne Scott Garrett (May, 1957) High Point

John Donald Hobart (Aug., 1956) Davidson

Raymond Lynn Kirk, Jr. (Aug., 1956) Raleigh

Stephen John McGrath (July, 1956) Flushing, N. Y.

Mattathias Mullins Tanner (May, 1957) Wake Forest

MASTER OF SCIENCE IN OCCUPATIONAL INFORMATION AND GUIDANCE

James Philander Dodge (May, 1957) Raleigh

MASTER OF SCIENCE IN APPLIED MATHEMATICS

Joan Marie Nery (May, 1957) N. Andover, Mass.

*Edward Rudolph Prince (May, 1957) McDade, La.

MASTER OF SCIENCE IN CERAMIC ENGINEERING

*Floyd Richard Bennett (May, 1957) Alliance, O.

MASTER OF SCIENCE IN CHEMICAL ENGINEERING

*Clifford Thurman Foster, Jr. (Jan., 1957)	Burlington
David Hansen (May, 1957)	Hoosick Falls, N. Y.
John Anthony Koszarek (July, 1956)	Philadelphia, Penn.
Jong Chul Park (Aug., 1956)	Taegu, Korea
Karyanil Thomas Thomas (Jan., 1957)	Pullad, India

MASTER OF SCIENCE IN CIVIL ENGINEERING

Jack Calvin Coss (May, 1957)	Raleigh
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MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

*Raul Alberto Gil (Jan., 1957)	Havana, Cuba
Harry Sloan Reichard (May, 1957)	Charlotte
Roger Dean Struck (July, 1956)	Swannanoa
Fredrick Louis Thurstone (Jan., 1957)	Chapel Hill

MASTER OF SCIENCE IN ENGINEERING PHYSICS

*Fredric Dale Anderson (Jan., 1957)	North Liberty, Ind.
Robert Smith Congleton (July, 1956)	Wilmington

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING

George Paul Redman (Aug., 1956)	Leslie, Mich.
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MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Henry Ottis Foster (Jan., 1957)	Winston-Salem
Herbert Waldemar Kirves (Jan., 1957)	Rheinberg, Germany
James Alexander Shuping (Jan., 1957)	Morganton

MASTER OF SCIENCE IN METALLURGICAL ENGINEERING

Frank Welch Clinard (May, 1957)	Winston-Salem
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MASTER OF SCIENCE IN NUCLEAR ENGINEERING

Robert Martin Bugg (July, 1956)	Lamar, Colo.
Wan Yong Chon (Jan., 1957)	Seoul, Korea
Robert Lyle Dough (July, 1956)	Manteo
Marvin Colgan Gaske (May, 1957)	Pine Bluff, Ark.
*Donald Robert Griesmer (May, 1957)	Detroit, Mich.
John Emery Grund (Jan., 1957)	Dallas, Ore.
William Bernard Haidler (May, 1957)	Ann Arbor, Mich.
Marvin Kent Moss (May, 1957)	Burlington
Alfred L. Mowery, Jr. (May, 1957)	Augusta, Ga.
Francis Narin (May, 1957)	Marian, Pa.
Louis Leonard Packer (May, 1957)	New York, N. Y.
Earl Mason Page (May, 1957)	Wilmington
Athorn Patumasootra (May, 1957)	Nakorn Patohn, Thailand
James Walter Rawers (May, 1957)	Bergholz, O.
Charles William Terrell (Aug., 1956)	Evanston, Ill.

MASTER OF SCIENCE IN TEXTILE CHEMISTRY

- *Roger Lee Pruitt (Jan., 1957) Odessa, Tex.
 Gaston Meares Randolph (May, 1957) Asheville

MASTER OF SCIENCE IN TEXTILE MANUFACTURING

- Pun-Duen Li (May, 1957) Shanghai, China
 *Ben Anne Malmstrom (Jan., 1957) Hyvinkaa, Finland
 Ting Chiao Tan (May, 1957) Manila, Philippines
 Gerald Montague Varley (July, 1956) Kersal, England

MASTER OF SCIENCE IN TEXTILE MANUFACTURING, QUALITY CONTROL

- Ahmed Sami Mohamed El-Tohami (July, 1956) Kafr-El-Dawar, Egypt

MASTER OF AGRICULTURAL ENGINEERING

- James Merrimon Williams, Jr. (May, 1957) State College, N. Mex.

MASTER OF ANIMAL INDUSTRY

- Clark Harrison Kirkman, Jr. (Jan., 1957) Marion

MASTER OF AGRICULTURAL EDUCATION

- Joseph Newton Banner (Aug., 1956) Sandy Ridge
 *Gattis Truett Horton (Jan., 1957) Knightdale
 William Haywood Howell (Aug., 1956) Fuquay Springs
 Hugh Lupton Limer (May, 1957) Hillsboro
 Oliver Orrin Manning (Aug., 1957) Dunn
 John Thomas Reeves (May, 1957) Pilot Mountain
 Lommie Norris Stephens (May, 1957) Franklinton

MASTER OF INDUSTRIAL ARTS

- Henry Erwin Bruton (July, 1956) Kinston
 Wilson James Herschell (July, 1956) Albany, Ga.
 Hal Foster King (July, 1956) Albany, Ga.
 Edward August Schroeder (Aug., 1956) Port Wentworth, Ga.
 Blondy Ebert Scott (Aug., 1956) Rocky Mount
 Thomas Clinard Shore, Jr. (Aug., 1956) Rocky Mount
 Robert Granville Thrower (Aug., 1956) Rocky Mount
 Glen Neal Titus (Aug., 1956) Roxboro

MASTER OF INDUSTRIAL EDUCATION

- Arthur Wade Martin (Jan., 1957) Cary

MASTER OF OCCUPATIONAL INFORMATION AND GUIDANCE

- Felix Scott Barker (May, 1957) Raleigh
 John Clifford Little (May, 1957) Conover

MASTER OF FORESTRY

- William LeRoy Halley (May, 1957) Upper Darby, Penn.
 Wade Thomas Jones (July, 1956) Winston Salem
 *James Francis Renfro (Jan., 1957) Mountain Home

MASTER OF WOOD TECHNOLOGY

- *Montgomery Rollins Childs (Jan., 1957) Dover, N. H.
 *John Ellsworth Masaschi (Jan., 1957) Chatham, Mass.

DOCTOR OF PHILOSOPHY

Irvin Charles Anderson (Jan., 1957)	Shenandoah, Iowa
Arthur Alexander Armstrong, Jr. (Jan., 1957)	Gastonia
*Ray Verne Billingsley (Jan., 1957)	Mutual, Okla.
John Alexander Bjorkland (Aug., 1956)	Evanston, Ill.
Patrick Colin Butler (May, 1957)	La Lima, Honduras
Melvin Winsor Carter (Aug., 1956)	Glendale, Ariz.
James Lee Cason (July, 1956)	Shongaloo, La.
Will Allen Cope (Aug, 1956)	Inverness, Ala.
*Khalid Abdul Kadir Debbagh (Jan., 1957)	Koy Sanjak, Iraq
Eugene Edejus Erickson (May, 1957)	Minneapolis, Minn.
John Frederick Fulkerson (Jan., 1957)	Cleveland, O.
Clyde Benson Fulmer (May, 1957)	Oak Ridge, Tenn.
Monroe Jack Goode (Jan., 1957)	Meridian, Miss.
David Gilbert Goslee (Aug., 1956)	Moorhead, Minn.
Robert Hall Hartman (Aug., 1956)	Wayne, Neb.
William Ray Henry (Jan., 1957)	Raleigh
*Akhtar Husain (May, 1957)	Basti, India
Thomas Barksdale Hutcheson, Jr. (July, 1956)	Blacksburg, Va.
William Addison Jackson (May, 1957)	Castile, N. Y.
Therese Marie Kelleher (Aug., 1956)	Des Moines, Iowa
Joseph Gideon Lundholm, Jr. (Aug., 1956)	Osage City, Kan.
Wilmoth Charles McArthur (Aug., 1956)	Lubbock, Tex.
Aubra Clinton Mathers (July, 1956)	Bakersfield, Mo.
William Mendenhall, III (May, 1957)	Montoursville, Penn.
*Gene Walker Miller (May, 1957)	Salt Lake City, Utah
*Paul Dixon Minton (May, 1957)	Dallas, Tex.
Dade William Moeller (May, 1957)	Malabar, Fla.
Robert Harry Moll (May, 1957)	Hamburg, N. Y.
*Robert Dean Morrison (Jan., 1957)	Stillwater, Okla.
Vasant Lakshman Mote (May, 1957)	Amraoti, India
Charles Andrews Plank (May, 1957)	Asheville
Sheila Isabelle Rowley (Aug., 1956)	Perth, Australia
Jack Taylor (May, 1957)	Blairsville, Ga.
Charles Hill Thomas (July, 1956)	Dexter, Ga.

Recipients of Honorary Degrees

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

FERDY ARGLES BROTHERS, a native of Wilmington, North Carolina, obtained at North Carolina State College the degree of Bachelor of Science and the professional degree in Civil Engineering. He possesses diversified experience in the designing and building of structures and highways. He is now Assistant for Operations Analysis in the Office of the Deputy Chief of Staff, U. S. Air Force, Washington, D. C.

Under the leadership of Mr. Brothers, the Operations Analysis Division has utilized the methods of science in advising the Air Staff in decisions of momentous importance.

As a dedicated educator and subsequently as a pioneer in operations research, he has been at the forefront of those who effectively present the case for scientists and scientific methods in our government operation and in our national defense.

To his alma mater and to his native state, Mr. Brothers has brought great honor.

FOR THE HONORARY DEGREE OF DOCTOR OF LAWS

THOMAS DOLLIVER CHURCH, a native of Massachusetts, holds degrees in landscape architecture from the University of California and Harvard University.

After teaching landscape architecture for two years at Ohio State University, he began in 1929 the practice of professional landscape architecture in San Francisco.

The influence of Mr. Church upon contemporary landscape design is manifested by examples of his work in the United States, Panama, France, and Spain. From his beginnings a new attitude toward the design of outdoor spaces has developed. He is regarded as the originator of the contemporary approach to design of domestic landscape architecture in the United States: the design for human use and enjoyment of outdoor spaces.

He is the author of a book, published in 1955, *Gardens Are for People: How to Plan for Outdoor Living*. His writings have been published in three other books and in periodicals.

In 1949 Mr. Church lectured at the School of Design at North Carolina State College. He is welcomed back as worthy of special honor.

FOR THE HONORARY DEGREE OF DOCTOR OF LAWS

HAROLD DUNBAR COOLTY, who was born in Nashville, North Carolina, attended law schools at the University of North Carolina and Yale University. In February 1918 he was licensed to practice law. During World War I he served in the Naval Aviation Flying Corps.

Now a member of the United States Congress, he has served the nation since 1934 as representative from the Fourth Congressional District of North Carolina.

In the 80th Congress he was a member of the Select Committee on Economic Aid to European Countries. This committee made recommendations which became the basis for the Marshall Plan.

He has served as Chairman of the House Committee on Agriculture in the 81st, 82nd, and 84th Congresses, and continues so to serve in the present Congress.

Mr. Cooley has long maintained a sympathetic and active interest in teaching and research programs of North Carolina State College, as well as of state universities in general. He sponsored legislation permitting schools of textiles to purchase from abroad, without payment of existing heavy import duty, machinery and apparatus for purposes of education and research.

North Carolina State College gratefully recognizes him as a statesman and leader who has contributed to the educational, agricultural, industrial, and economic well-being of our state and nation.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

WILSON DURWARD LEGGETT, JR., whose birthplace is Tarboro, North Carolina, earned the Bachelor of Science Degree at the United States Naval Academy, and the Master of Science Degree at Columbia University.

Having entered the United States Navy as a midshipman in World War I, he became in 1953, after many years of distinguished service, Chief of the Bureau of Ships. He retired in 1954 with the rank of Rear Admiral.

During his naval career he initiated and developed a Diesel engine program which freed our Navy of dependence on foreign design and made possible the notably successful Diesel electric propulsion of World War II. He sponsored the Diesel electric drive submarine, which is still the standard design for submarines other than nuclear. While he was Chief of the Bureau of Ships, the Aircraft Carrier *Torresdale* was designed and built; and the USS *Nautilus*, first nuclear powered submarine, was completed and placed in operation.

At the present time, as Vice President in Charge of Engineering for American Locomotive Company Products, Inc., Schenectady, New York, Admiral Leggett directs for that organization all research, development, and nuclear engineering.

For his achievements as naval officer, engineer, inventor, and distinguished citizen—he is deserving of the recognition here heartily accorded him.

FOR THE HONORARY DEGREE OF DOCTOR OF HUMANITIES

CLIFFORD WILLARD TILSON, who was born in Mars Hill, North Carolina, served in the Army during World War I, and graduated at North Carolina State College in 1924 with the degree of Bachelor of Science.

Since its organization in 1930, he has been general manager of a co-operative enterprise, the Central Carolina Farmers Exchange, Durham, North Carolina.

Through his leadership in co-operative endeavors, and with a wise comprehension of the problems of this state, he has effectively fostered advancements in both agriculture and industry.

In managing an organization that has an annual business volume of more than sixteen million dollars, Mr. Tilson has retained a deep and discerning appreciation for the contributions of instruction and research to agricultural and industrial progress.

He strives to stimulate scholastic interest in youth, and to provide facilities for their training. He has given generously of his time and strength to the support of his alma mater and to the furtherance of causes identified with her mission. He has served as President of the State College Foundation, as a Director of the Agricultural Foundation, and as a member of the State College Development Council.

It is becoming that State College confer upon him this recognition of merit.

Awards for Achievement

1956-1957

SCHOOL OF AGRICULTURE

Agricultural Economics: Wall Street Journal Achievement Award. Fred Allen Mangum, Jr., Zebulon.

Agricultural Engineering: American Society of Agricultural Engineers, Student Honor Awards. Fred William Kiser, Kings Mountain; Milton Cary Woodlief, Kittrell.

Agronomy: Senior Highest Scholastic Average in Crops and Soils. Tully Baxter Williams, Jr., Currituck.

Most Outstanding Senior in Crops and Soils. Roger Post Hill, Pink Hill.

Agronomy Achievement Award. Howard Gordon Small, Jr., Fair Bluff.

Animal Industry: The Fred M. Haig Trophy. William Charles McGinnis, Raleigh.

Chemistry: The Chemical Rubber Company Achievement Award. James Uriah Crowder, Jr., Asheville.

Alpha Zeta: Alpha Zeta Scholarship Cup. Cristopher A. Tabor, Baltimore, Md.

SCHOOL OF DESIGN

American Institute of Architects School Medal. Robert Paschal Burns, Jr., Roxboro.

American Institute of Architects Book Award. Edwin Freeland Harris, Jr., Elkin.

Forty-fourth Paris Prize in Architecture. Robert Paschal Burns, Jr., Roxboro.

Alpha Rho Chi Medal. Betram Ellentuck, Woodbridge, N. J.

North Carolina Chapter American Institute of Architects Book Awards. Robert Paschal Burns, Jr., Roxboro; Edwin Freeland Harris, Jr., Elkin; James Russel Washburn, Jr., Lake Lure.

SCHOOL OF EDUCATION

Kappa Phi Kappa Scholarship Medal. Omega C. Abbott, Henderson.

SCHOOL OF ENGINEERING

The School of Engineering Award: Gold Watch to Outstanding Senior in School of Engineering. William D. Wilkinson, Jr., Greensboro.

Ceramic Engineering: Moland-Drysdale Scholarship Cup. Robert Douglas McBlayer, Forest City.

J. C. Steele Scholarship Cup. Richard Horace Redwine, Rural Hall.

Chemical Engineering: American Institute of Chemical Engineers Certificate. Gerald Epps Hagler, Belmont.

Civil Engineering: Chi Epsilon Award. Henry Horace Gatewood, Winston-Salem.

Electrical Engineering: Eta Kappa Nu Sophomore Award. James F. Bost, Raleigh.

Outstanding Senior in Engineering and Institute of Radio Engineers. William D. Wilkinson, Jr., Greensboro.

Mechanical Engineering: Pi Tau Sigma Award. Harold Drew Beck, Sanford.
The Institute of Aeronautical Sciences Award. James Edward Wallace, Miami, Fla.

Tau Beta Pi: National Engineering Fraternity Award. Robert P. Kennel, New Bern.

SCHOOL OF FORESTRY

Southeastern Division of the American Pulp and Paper Mill Superintendents Association Scholarship Award. David Boyce White, Franklin.

Ni Sigma Pi Senior Scholarship Award. To be announced.

Ni Sigma Pi Freshman Award. Edward Lee Gibbon, Richmond, Va.

SCHOOL OF TEXTILES

American Association of Textile Chemists and Colorists Award. Charles Frederick Mauney, Kings Mountain.

American Association for Textile Technology Award. William Richard Greene, Greensboro.

Phi Psi Fraternity Scholarship Award. Outstanding Graduating Senior in the School of Textiles. John Wesley Copeland, Durham.

Textile Veterans Association Award. Alvin Leigh Potts, Goldsboro.

Sigma Tau Sigma Fraternity Scholarship Award. Charles Frederick Mauney, Kings Mountain.

Delta Kappa Phi Fraternity Senior Award. Selected by the Senior Class. William R. Greene, Greensboro.

ALUMNI ATHLETIC TROPHY

Robert P. Seitz, Oaklyn, N. J.

PHI KAPPA PHI, NATIONAL HONORARY SCHOLARSHIP SOCIETY

Graduate Student Ph.D. Award. Akhtar Husain, India.

Graduate Student Masters Award. George Maurice Cheniae, Centralia, Ill.

Sophomore Honorary Award. Williams Taylor Easter, Winston-Salem.

Junior Honorary Awards. Robert Philip Kennel, New Bern; Lennart Rudolph Peterson, Winston-Salem.

Senior Honorary Award. Ralph deSchweinitz Siewers, III, Winston-Salem.

AIR FORCE ROTC AWARDS

Armed Forces Communications and Electronics Award. Cadet 1st Lt. Ashlev Gray Leggett, Jr., Washington, N. C.

Republic Air Power Award. Cadet Captain James Weatherspoon Harrill, Raleigh.

Consolidated Vultee Aircraft Corporation Annual Award. Cadet Staff Sergeant Ronald Lewis Savage, Chincoteague, Va.

Professor of Air Science Award. Cadet Major Sidney Hamilton Gordon, Greensboro.

AFROTC Flight Leader Award. Cadet 1st Lt. Paul Julian Wicker, Cameron.

AFROTC Drill Award. Cadet Major Larry Herbert Royster, Durham.

The Arnold Air Society Award. Cadet Technical Sergeant Lloyd Burton Worthington, Jr., Winterville.

Major General William C. Lee Scholarship Award. Cadet John David Fulton, Norton, Va.

American Legion Award. Cadet Lt. Colonel Preston Andrew Collins, Maysville.

Society of American Military Engineers Gold Medal Award. Cadet Lt. Colonel Morris Ratliff, Hallsboro.

Sons of American Revolution Medal. Cadet Technical Sergeant John David Barnhardt, Charlotte.

Chicago Tribune Gold Medal Award (AS IV). Cadet Lt. Colonel Arthur William Fihelly, Alexandria, Va.

Chicago Tribune Silver Medal Award (AS III). Cadet Master Sergeant William Alexander Graham, III, Charlotte.

Chicago Tribune Gold Medal Award (AS II). Cadet Airman First Class Luther Carlton Salter, Jr., Sheffield, Ala.

Chicago Tribune Silver Medal Award (AS I). Cadet Luther Louis Landin, Jr., Rocky Mount.

Director of Training Award (Category I, AS IV). Cadet Captain John William Frye, Jr., Aberdeen.

Seaboard and Blade Award (AS II). Cadet Staff Sergeant Jack Allen Gardner, Pasadena, Calif.

Society of American Military Engineers Gold Medal Award. Cadet Master Sergeant Robert Philip Kennel, New Bern.

Air Force Association Medal. Cadet Colonel George Terry Lathrop, Asheville.

Honor Squadron Award to "M" Squadron. Cadet Major Sidney Hamilton Gordon, Greensboro, Commander.

AFROTC Rifle Team Awards. Cadet 1st Lt. James Leo Burton, Jr., Roanoke Rapids; Cadet Carl Murray Penney, Warwick, Va.; Cadet Staff Sergeant Robert Spencer Waynick, Jr., Reidsville; Cadet Airman First Class Jesse Franklin Montgomery, Smithfield.

ARMY ROTC AWARDS

The Department of the Army Senior Cadet Awards. Senior Class: Cadet Lt. Colonel August Albert DeHerrig, Lemont, Ill.; Junior Class: Cadet Master Sergeant Robert Chamberlayne Lyne, Jr., Richmond, Va.; Sophomore Class: Cadet Sergeant First Class Charles Wayne Hammer, Siler City; Freshman Class: Cadet Private Charles Eugene Rickell, Frederick, Md.

Certificate of Meritorious Leadership Achievement. Cadet Colonel Paul Gyles Braxton, Silver City.

The Colonel John W. Harrelson Scholarship Award. Cadet Private Norman Earl Banks, New Bern.

Association of the United States Army Medals. Cadet Lt. Colonel Paul John Pickenheim, Tamaqua, Penn.; Cadet Sergeant First Class Richard Johnson Cashwell, Lumberton.

American Legion Medal. Cadet Major Joel Ray Parker, Charlotte.

Sons of the American Revolution ROTC Medal. Cadet Master Sergeant John Broughton Fortin, Jr., Decatur, Ga.

Seaboard and Blade Award. Cadet Private Edward Dickson Kendrick, Jr., Fallston.

Society of American Military Engineers Medal. Cadet Master Sergeant Robert Chamberlayne Lyne, Jr., Richmond, Va.

Armed Forces Communications and Electronics Award. Cadet Captain Louis Richard Ledbetter, Greensboro.

American Ordnance Association Key. Cadet Lt. Colonel Joseph Edgar Settle, Ronda.

Professor of Military Science and Tactics Award. Cadet Major Joel Ray Parker, Charlotte, Company "C".

Best Drilled Platoon Award. Cadet 1st Lt. Claude Wayne Moss, Rural Hall, 2nd Platoon, Company "L".

Master Sergeant Horace Carter Thomas, Sr., Award. Cadet Master Sergeant Victor Finley Dry, Albemarle.

Chicago Tribune Gold Medals. Cadet Major Ernest Lewis Ross, Cleveland, Tenn.; Cadet Master Sergeant George Robert Howard, Jr., Charlotte.

Chicago Tribune Silver Medals. Cadet Private James Francis Deal, III, Landis; Cadet Sergeant First Class William Byrd Kay, Jr., Red Springs.

Outstanding Achievement Awards for Meritorious Service. Cadet Major Bobby Lynwood Hubbard, Charlotte; Cadet Major Richard Frederick Jessup, Winston-Salem; Cadet Major Richard Clay White, Danville, Va.; Cadet Major James Conrad Stevenson, Clemson, S. C.; Cadet 1st Lt. William Edward Dick, Jr., Afton, Va.; Cadet 1st Lt. Claude Wayne Moss, Rural Hall.



STATE COLLEGE RECORD

NORTH CAROLINA STATE COLLEGE 1957 SUMMER SESSIONS

**JUNE 4-JULY 12
JULY 16-AUGUST 22**

Officers of Administration

THE CONSOLIDATED UNIVERSITY

William C. Friday	<i>President</i>
William M. Whyburn	<i>Vice-president for Graduate Studies and Research</i>
William D. Carmichael	<i>Vice-president and Finance Officer</i>

NORTH CAROLINA STATE COLLEGE

Carey H. Bostian	<i>.....Chancellor</i>
L. L. Ray	<i>.....Assistant to the Chancellor for Development and Public Relations</i>
John W. Shirley	<i>Dean of the Faculty</i>
James J. Stewart, Jr.	<i>Dean of Student Affairs</i>
J. G. Vann	<i>Business Manager</i>
Dean W. Colvard	<i>Dean of the School of Agriculture</i>
Henry L. Kamphoefner	<i>.....Dean of the School of Design</i>
James B. Kirkland	<i>.....Dean of the School of Education</i>
John H. Lampe	<i>Dean of the School of Engineering</i>
Richard J. Preston	<i>Dean of the School of Forestry</i>
C. Addison Hickman	<i>.....Dean of the School of General Studies</i>
Malcolm E. Campbell	<i>.....Dean of the School of Textiles</i>
Walter J. Peterson	<i>Acting Dean of the Graduate School</i>
Kenneth D. Raab	<i>Director of Admissions</i>
Philip M. Rice	<i>.....Director of the Summer Sessions</i>

All requests for summer school information should be addressed to the Director of the Summer Sessions, 101 Pullen Hall, North Carolina State College, Raleigh, N. C.

STATE COLLEGE RECORD

Vol. 56

April, 1957

No. 8

STATE COLLEGE STATION, RALEIGH, N. C.

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NORTH CAROLINA STATE COLLEGE

1957 Summer Sessions

CALENDAR

FIRST SESSION

June 3	Monday	Freshman Orientation and Testing
June 4	Tuesday	Registration. Late registration fee of \$5 payable by all registering after June 4
June 5	Wednesday	First Day of Classes
June 10	Monday	Last Day of Registration
June 14	Friday	Last Day for Dropping Courses without Failure
July 4	Thursday	Holiday
July 10	Wednesday	Last Day of Classes
July 11, 12	Thursday & Friday	Final Examinations

SECOND SESSION

July 15	Monday	Freshman Orientation and Testing
July 16	Tuesday	Registration. Late registration fee of \$5 payable by all registering after July 16
July 17	Wednesday	First Day of Classes
July 22	Monday	Last Day for Registration
July 26	Friday	Last Day for Dropping Courses without Failure
August 20	Tuesday	Last Day of Classes
August 21, 22	Wednesday & Thursday	Final Examinations

THE COLLEGE

North Carolina State College, founded by legislative act on March 7, 1887, is the State's technological institution of higher learning and Land Grant College. Now in its 68th year, the College has a regular enrollment exceeding 5,500 students from 48 states, the District of Columbia, three United States possessions, 39 foreign countries, and all of the 100 counties in North Carolina.

Known throughout the world for its programs of teaching, research, and extension services, North Carolina State College maintains six degree-granting schools: Agriculture, Education, Engineering, Design (including architecture and landscape architecture), Forestry, and Textiles. In addition, the College operates a School of General Studies, which provides courses in the humanities and social sciences for all students.

The College is located in the State's historical capital city, where students have access to a rich reservoir of art treasures, library facilities, concerts, churches, and other cultural assets.



The patio outside the College Union's snack bar

THE SUMMER SESSIONS

The Summer Sessions at North Carolina State College serve more than 2700 students in two regular sessions of six weeks each and in three special programs. The regular sessions offer a wide range of courses designed to fit the needs of both regular students of the College and others, including teachers who wish to earn credit toward the renewal of teaching certificates or toward advanced degrees. In addition, the Summer Sessions offer high school students enrolling in the College an opportunity to take required preparatory work in English and mathematics, and provide regularly enrolled students an opportunity to advance their academic status.

The special programs in Agricultural Extension, Nuclear Energy Fundamentals, and Statistics are designed to serve particular needs of selected teachers and scholars as well as industrialists and business leader. Announcements of the special programs are forwarded by the departments concerned. A brief description of the programs and other pertinent information will be found on pages 21, 22 of the Summer Sessions catalogue.

ADMISSIONS

FRESHMEN.—All students entering North Carolina State College as freshmen, or as students without college credit, must have taken the prescribed entrance examinations in order to complete the requirements for admission. Applicants for the Summer Sessions may take the entrance examinations on June 3, in order to qualify for the first session, or on July 15, in order to qualify for the second session.

Admission to the College in September 1957, is dependent upon an applicant making a specified minimum score on the entrance examinations, except that an applicant enrolling in the Summer Sessions and taking review courses in English and Algebra may qualify for admission in the fall by obtaining grades of C or better in both of the review courses.

TRANSFERS.—Undergraduate students who have never attended State College and are enrolling for the summer only *may* be required to furnish a transcript of their academic record. Former students who have attended other institutions since their last residence at North Carolina State College, undergraduate transfers who wish to enroll for a degree, and graduate students enrolling for the first time, *must* furnish official transcripts of their academic qualifications. (For details concerning the submission of transcripts, see **REGISTRATION**.)

COUNSELING SERVICE.—The State College Counseling Center provides a special counseling service to new students in order to assist them in becoming oriented to the College and to aid them in wisely choosing a field of study.

EXPENSES

The following expenses apply for each of the regular six-week sessions.

TUITION	\$ 7.50 per semester credit for North Carolina students. \$15.00 per semester credit for out-of-state students. \$ 7.50 for each course audited.
FEES	\$ 8.00 Registration and other fees. (A late fee of \$5.00 will be charged all students completing their registration after the designated date.)
ROOM	\$24.00 per person, plus a \$2.00 key deposit.
BOARD	Board is cafeteria style and the cost depends upon the individual student. A fair estimate would be about \$75.00 per session.
GRADUATION FEE	Any student who is completing requirements for graduation at the close of one of the summer sessions will be charged a fee of \$7.00 if he is securing a Bachelor's degree, a fee of \$10.00 if he is completing work for a Master's degree, and a fee of \$15.00 if he is a candidate for the degree of Doctor of Philosophy. The Graduate School will also charge Doctor of Philosophy candidates a fee of \$20.00 for microfilming and mailing dissertations.

HOUSING

MEN. Dormitories for men are available for each of the summer sessions. Bed linen and pillows are not furnished. Students should bring those items and any special equipment they may require. Students will normally be housed two in each room. There are no single rooms available.

WOMEN.—The College has no dormitory for women students. Co-eds must make their own housing arrangements. A list of available rooms for rent is maintained at the Dormitory Rental Office in Room 4, Holladay Hall.

REGISTRATION

STATE COLLEGE STUDENTS.—Students who completed the spring semester in residence should notify the Registration Office, between May 1 and May 15, of their intention to attend summer school. Permits to register for the summer session may be picked up at the Registration Office, ground floor, Holladay Hall, north end, on Saturday, June 1, Monday, June 3, and Tuesday, June 4. Instructions will be printed on the permits.

Former State College students who were not in residence during the spring semester should go to Room 10, Holladay Hall, to apply for readmission and to get their permits and instructions for registration. These students can save valuable time by writing to the Director of Admissions by May 1 (if possible) about their intention of returning for the summer sessions. Former students who have attended other institutions since their last residence at State College must have official transcripts sent to the Registration Office before registering for one of the summer sessions.

UNDERGRADUATE TRANSFERS.—Undergraduate students from other colleges coming to State College for the summer only should submit their applications to the Director of Admissions, Holladay Hall, not later than May 28th prior to the opening of the Summer Sessions. A transfer of academic credits and other information attesting to the qualification of the student may be required for the completion of the application.

Undergraduate students who desire to become regularly enrolled for credit toward an undergraduate degree should write to the Director of Admissions for full information. Before their admission can be approved, they will need to fill out a regular application and have official transcripts sent directly to the Director of Admissions.

GRADUATE STUDENTS.—Graduate students who desire to enroll for the first time in the Graduate School should write in advance to Dr. Walter J. Peterson, Acting Dean of the Graduate School, and secure approval. Official transcripts of undergraduate and any previous graduate work will be required prior to registration for the Summer Session.

DIRECTIONS FOR REGISTRATION.—Directions for registration will be given each student when he secures his permit to register from the Registration Office on the ground floor of Holladay Hall.

MAXIMUM CREDIT HOURS.—The normal load for the summer session is six semester hours. Any student may carry less. Loads in excess of seven hours must be approved by the Dean or Director of Instruction of the school in which the student is registered. Such approvals must be in writing on the original copy of the student's summer session roster of courses. The maximum load is twelve hours. **VETERANS** under P. L. 346 must carry 4 semester hours and **VETERANS** under P. L. 550 must carry 5 semester hours to qualify for full subsistence or payment.

FACILITIES FOR STUDY AND RECREATION

THE COLLEGE LIBRARY

The North Carolina State College Library is a modern building providing shelves for 400,000 volumes and containing dozens of private study carrels, conference rooms, and reading rooms.

As of January 1, 1957 the College Library held more than 162,000 volumes of books and bound journals, and more than 12,000 bound volumes of documents. The books and journals have been selected to accentuate the scientific and technological interests of the College, and the documents represent a most important increment of the whole collection. They include, in addition to the publications of the Federal Government, all publications of the various Agricultural Experiment Stations, most of the publications of the Engineering Experiment and Engineering Research Stations, and publications of the various research stations from all over the world.

The depository status of the College Library may be described as follows:

1. The Library is a complete depository for all unclassified publications of the Federal Government that are available for distribution.
2. The Library is a complete depository for all publications of the Geological Society of America and has a complete file of all GSA publications.
3. The Library is a "selective" depository for the publications of the Carnegie Institute of Washington and has excellent files of these valuable monographs.
4. The Library is one of 41 depositories for all unclassified and declassified publications of the Atomic Energy Commission.
5. The Library receives on exchange the publications of many foreign countries—especially publications dealing with the agricultural sciences and with engineering.

Library hours for the Summer Sessions are as follows:

Monday through Friday	8:00 a.m. to 10:00 p.m.
Saturday	8:00 a.m. to 5:30 p.m.



Circulation desk at the College Library

THE COLLEGE UNION

The College Union is one of the nation's most modern centers of student activity, not only because of its architectural structure but because of the premise on which it operates. The basic philosophy of the Union is that it will be student governed and that all its activities will be planned by students. All students on the campus are members and all faculty and staff are eligible to purchase memberships. Every member is welcome to join the various College Union committees and to take part in planning the Union program.

The College Union offers many facilities and services to members and their guests. Facilities for recreation and leisure include a music listening lounge, a television lounge, a gallery for the display of student art and craft, a photography lab, a craft shop, a library lounge, a billiard room, and a quiet room. Services include a barber shop, cloak room, snack bar, dining room, hotel rooms, meeting rooms, and a center where students may apply for work while attending college.

In addition to its regular facilities, the College Union offers a variety of entertainment geared to the summer program. Activities for the Summer Sessions probably will include the following: swimming, square dancing, outings to the beaches and to the mountains, movies on the terrace, dancing on the patio, work in ceramics, and a varied program of professional entertainment.

Building hours for the Summer Sessions are as follows:

Monday through Friday	7:00 a.m. to 10:30 p.m.
Saturday	8:00 a.m. to 6:00 p.m.
Sunday	12:00 noon to 6:00 p.m.



The College Union

Schedule of Courses

In the schedule below, the courses are arranged alphabetically by IBM symbols and numerically by course numbers. Classes meet daily Monday through Friday between the hours given unless otherwise indicated. The symbols I.R. and L.B. before the clock hours refer to Lecture-Recitation and Laboratory hours respectively.

Class periods longer than 90 minutes provide sufficient time for a 10-minute break within the period. Credits for each course are given in parenthesis following the name of the course. Staff is subject to change.

The Director of the Summer Sessions reserves the right to withdraw courses in which the enrollment is too small.

1ST SESSION			2ND SESSION	
Hours	Staff	Course Number	Course Name	Hours

AGRICULTURAL ECONOMICS

10:20-11:50	King	AGC 521	Economics of Agricultural Marketing (3)	
8:9-30	King	AGC 642	Economics of Consumption, Demand, and Market Interdependency (3)	

ANIMAL INDUSTRY

I.R. 8:9-30, L.B. 1:30-4:10	Haig	AI 201	Elements of Dairy Science (4)	
Arranged	Arranged	AI 507	Topical Problems (3)	Arranged
Arranged	Arranged	AI 600	Research in Animal Industry (max 6)	Arranged

CIVIL ENGINEERING

I.R. 8:40-9:40, L.B. 1:30-5	Spaine	CE 202-212	Surveying II (3)	
10:20-11:50	Spaine	CE 339	Structures II (3)	

1ST SESSION

2ND SESSION

Hours	Staff	Course Number	Course Name	Staff	Hours
LR 8-9:30, LB 1:30-5:30 WF LR 8-9:30, LB 1:30-5:30 MF or WF LB 1:30-5:30 MF or WF	Staff includes: Satterfield, Hentz, Loeppert, Showalter, and White	CH 101 CH 103 CH 103L	General Inorganic Chemistry (4) General & Qualitative Chemistry (4) Semimicro Qualitative Chemistry (1)	Staff includes: Hentz, Loeppert, Robinson, and Blalock	LR 8-9:30, LB 1:30-5:30 WF LR 8-9:30, LB 1:30-5:30 MF or WF
LR 10:20-11:50, LB 1:30-5:30 WF		CH 203	General & Organic Chemistry (4)		LR 10:20-11:50, LB 1:30-5:30 WF
LR 8-9, LB 1:30-5:30 MTWT		CH 211	Quantitative Analysis (Volumetric) (4)		
		CH 212	Quantitative Analysis (Gravimetric) (4)		
LR 10:20-11:50, LB 1:30-5:30 TT		CH 215	Quantitative Analysis (4)		
LR 10:20-11:20, LB 1:30-5:30 TT		CH 451	Introductory Biochemistry (3)		LR 8-9, LB 1:30-5:30 TT

CHEMICAL ENGINEERING

LR 8-9:30, LB arranged	Staff	CHE 311	Introductory Chemical Engineering (4)		
Arranged Arranged	Arranged	CHE 470 CHE 570	Chemical Engineering Projects (2) Chemical Engineering Projects (1-3)	Arranged Arranged	Arranged Arranged
Arranged	Arranged	CHE 680	Chemical Engineering Research (arr)	Arranged	Arranged

DAIRY MANUFACTURING

Arranged Arranged	Arranged Arranged	DM 400 DM 604	Dairy Plant Experience (max 6) Topical Problems in Dairy Manufacturing (max 3)	Arranged Arranged	Arranged Arranged
Arranged	Arranged	DM 605	Research in Dairy Manufacturing (max 6)	Arranged	Arranged

DESIGN (All courses run 9 weeks)

1:30-5:15	Montenegro	DN 102	Design II (3)	Continues through August 2
1:30-4:45 MWF	Montenegro	DN 112	Descriptive Drawing II (2)	Continues through August 2
1:30-4:45 MWF	Montenegro	DN 212	Descriptive Drawing IV (2)	Continues through August 2
1:30-4:45 MWF	Montenegro	DN 312	Descriptive Drawing VI (2)	Continues through August 2

ECONOMICS

10:20-11:50	Pikner	EC 201	Economics (3)	Thompson	10:20-11:50
8-9:30	Pikner	EC 205	The Economic Process (3)	Thompson	8-9:30
8-9:30	Shulenberg	EC 312	Accounting for Engineers (3)		
		or			
8-9:30	Shulenberg	EC 350	Economic Geography (3)		
10:20-11:50	Shulenberg	EC 401	Principles of Accounting (3)		
8-9:30	Moen	EC 407	Business Law (3)		
10:20-11:50	Moen	EC 411	Marketing Methods & Sales Management (3)		
		or			
10:20-11:50	Moen	EC 415	Advertising (3)		
8-9:30	Bartley	EC 425	Industrial Management (3)	Wood	8-9:30
10:20-11:50	Bartley	EC 426	Personnel Management (3)	Wood	10:20-11:50

EDUCATION

10:20-11:50 or 12-1:30	Armstrong	ED 308	Visual Aids (2)	Armstrong	10:20-11:50
9-10-10:10	Sylvind	ED 344	Secondary Education (2)	Armstrong	8-10-9:40
Arranged	Linnell	ED 410	Driver Education (3)		
8-9	Miss Brummitt	ED 420	Principles of Guidance (2)		
8-9:30	Cortier	ED 501	Education of Exceptional Children (3)		
10:20-11:50	Rust	ED 502	Analysis of Reading Abilities (3)		
8-9:30	Rust	ED 503	Improvement of Reading Abilities (3)		
Arranged	Cortier	ED 509	Special Education Workshop (3-6)		
Arranged	Linnell	ED 510	Advanced Driver Education (3)		
Arranged		ED 521	Organization of Related Study Materials (2)		

1ST SESSION		2ND SESSION	
Hours	Staff	Course Name	Staff
Arranged			Hours
Arranged			
10:20-11:50	Miss Brumitt	ED 527 Philosophy of Industrial Education (2)	
8:9:30	Hostetler	ED 528 Principles & Practices in Diversified Occupations (2)	
		ED 530 Group Guidance (3)	
		ED 552 Industrial Arts in the Elementary Schools (3)	
8:9:30	James	ED 558 Special Problems in Teaching (3)	Nylund
1:30-3:00	Scarborough	ED 563 Effective Teaching (3)	
		ED 565 Farming Programs in Vocational Agriculture (3)	
10:20-11:50	James	ED 568 Adult Education (3)	
Arranged		ED 610 Administration and Supervision of Vocational Education (2)	
10:20-11:50	Nylund	ED 615 Introduction to Research (3)	
Arranged	Hostetler	ED 619 Seminar in Industrial Arts (1)	
Arranged	James	ED 621 Research in Agricultural Education (3)	Nylund
		ED 627 Research in Industrial Education (max 6)	
10:20-11:50	Hostetler	ED 630 Philosophy of Industrial Arts (2)	
8:9:30	Anderson	ED 631 Educational and Vocational Guidance (3)	
Arranged	Anderson	ED 641 Field Work in Guidance (3)	
Arranged	Anderson	ED 651 Research in Occupation Information and Guidance (3)	
10:20-11:50	Scarborough	ED 664 Supervision in Agricultural Education (3)	

ELECTRICAL ENGINEERING

IR 8:40-9:40	or	10:20-11:20	Staff	EE 201 Elementary Circuits and Fields (4)	Continues through August 22
LB arranged				(This course is offered in a 12-week sequence)	

ENGINEERING MECHANICS

8-9:30 or 10:20-11:50
8-9:30
10:20-11:50

Mitchell, Smith,
Eason
Mitchell
Smith

EM 311 Mechanics I (Statics) (3)
EM 312 Mechanics II (Dynamics) (3)
EM 321 Strength of Materials I (3)

Courses will be offered only in the event there is sufficient demand.

ENGLISH

8-9:30 or 10:20-11:50
8-9:30 or 10:20-11:50
8-9:30 or 10:20-11:50
8-9:30 or 10:20-11:50
10:20-11:50
8-9:30 or 10:20-11:50
10:20-11:50
8-9:30

Suberman
Moore
Provost, Koonce,
Whitchard
Koonce, Moore,
Provost
Shelley
Paget
Suberman
Whitchard

EN 100 English Refresher (x3)
EN 111 Composition (3)
EN 112 Composition (3)
EN 205 Reading for Discovery (3)
EN 211 Business Communications (3)
EN 231 Basic Speaking Skills (3)
EN 324 Advanced Grammar (3)
EN 366 The American Mind II (3)

Kincheloe
Eldridge
Wynne
Ruffs, Kincheloe
Ruffs
Fountain
Fountain, Wynne

8-9:30
8-9:30
8-9:30 or 10:20-11:50
10:20-11:50
10:20-11:50
8-9:30 or 10:20-11:50

FIELD CROPS

Arranged

Mann and
Haynes

FC 542 Plant Breeding Field Procedures (2)
(Conducted on an arranged basis during the entire summer)

Terminates approximately September 15

HISTORY

8-9:30 or 10:20-11:50
10:20-11:50

Brown
Kolb

HI 205 The Modern Western World (3)
HI 251 The United States to 1865 (3)
HI 252 The United States since 1865 (3)
HI 261 The United States in Western
Civilization (3)
HI 412 Recent United States History (3)

Beers
Seegers
Seegers
Beers

8-9:30
10:20-11:50
8-9:30
10:20-11:50

2ND SESSION

1ST SESSION

Hours	Staff	Course Number	Course Name	Staff	Hours
8-9:30		HRT 222	Introduction to Horticulture (3)		
LR 8-9, LB 1:30-4 MW	Gardner Randall	HRT 301	Plant Propagation (3)		
LR 10-11, LB 1:30-4 TT	Randall	HRT 342	Landscape Gardening (3)		
LR 8-9, LB 1:30-4 MW	Jones	HRT 452	Principles of Fruit & Veg. Processing (3)		
Arranged	Haynes	HRT 542	Plant Breeding Field Procedures (2)		

HORTICULTURE**INDUSTRIAL ARTS**

7:30-10:10	Jenkins	IA 104	Industrial Arts Drawing (3)	Jenkins	1:20-4:00
10:20-1:00	Jenkins	IA 106	Laboratory of Industry (3)		
1:20-4:00	Young	IA 107	General Woodwork (3)	Young	10:20-1:00
		IA 108	General Woodwork (3)	Jenkins	10:20-1:00
7:30-10:10	Young	IA 206	General Metalwork (3)	Young	7:30-10:10
Arranged	Arranged	IA 207	General Metalwork (3)		
Arranged	Arranged	IA 570	Laboratory Problems in Industrial Arts (3)		
		IA 575	Special Problems in Industrial Arts (3)		

INDUSTRIAL ENGINEERING

8-10:10 MWF	Kelley	IE 217	Machine Tools (1)	Kelley	1:30-3:00
		IE 206	Industrial Organization & Management (3)		

INDUSTRIAL AND RURAL RECREATION

(see courses under RECREATION)

MATHEMATICS

10:20-11:50 8-9:30 or 10:20-11:50	Canada Clarkson, Levine Boles	MA 1 Plane Geometry (x3) MA 2 Review Algebra (x3)	Park Midyette, Verbeck Shahdan	10:20-11:50 8-9:30 or 10:20-11:50
7:30-10:10 or 11:20-1:00	MacKerracher, Shahdan	MA 3 Review Algebra for Engineers (x5)		7:30-10:10
8-9, 10:20-11:20, or 1:30-2:30	Anderson, Lewis, Speece	MA 4 Solid Geometry (x2)	Lewis, Brantley	8-9 or 10:20-11:20
7:30-10:10 or 11:20-1:00	Fisher, Peterson, Petra	MA 101 Math for Engineers (5)	Peterson	7:30-10:10
8-10:10 or 10:20-12:30	Brantley, Little, Watson, Park	MA 102 Math for Engineers (4)	Williams, Little, Winton	8-10:10 or 10:20-12:30
8-10:10 or 10:20-12:30	Shahdan, Williams	MA 111 Algebra and Trigonometry (4)	Canada	8-10:10
8-10:10 or 10:20-12:30	Cooke, Winton Lewis	MA 112 Analytic Geometry & Calculus A (4) MA 122 Math of Finance & Elementary Statistics (4)	Seagraves Nolstad, Lewis	8-10:10 8-10:10
8-10:10 or 10:20-12:30 8-10:10 or 10:20-12:30	Anderson, Speece Nolstad, Williams, Canada, Cooke	MA 201 Calculus I (4) MA 202 Calculus II (4)	Brantley Cooke	8-10:10 8-10:10
10:20-11:50	Sox	MA 211 Analytic Geometry and Calculus B (3)		
10:20-11:50	MacKerracher	MA 212 Analytic Geometry and Calculus C (3)		
8-9:30	Clarkson, Mumford Nolstad Park	MA 401 Differential Equations (3) MA 402 Theory of Equations (3) MA 501 Graphical and Numerical Methods (3)	Winton	8-9:30
8-9:30 8-9:30 8-9:30 10:20-11:50 10:20-11:50 10:20-11:50 10:20-11:50	Nahikian Winton Mumford Watson Winton Park Clarkson	MA 511 Advanced Calculus I (3) MA 512 Advanced Calculus II (3) MA 514 Boundary Valuation Problems (3) MA 532 Advanced Differential Equations (3) MA 541 Vector Analysis (3) MA 611 Complex Variable Theory (3) MA 622 Advanced Algebra (3)	Park	8-9:30

1ST SESSION

2ND SESSION

Hours	Staff	Course Number	Course Name	Staff	Hours
8-10:10 or 8-9:30	Leonard Blizard	ME 102	Engineering Graphics (2)		
		ME 301	Engineering Thermodynamics I (3)		
8-9:30	Ledbetter		(For other than ME, MEA, or EE students)		
1:30-5:30 TT	Ledbetter, Blizard	ME 302	Engineering Thermodynamics II (3)		
		ME 306	Mechanical Engineering Laboratory II (1)		

MECHANICAL ENGINEERING**MODERN LANGUAGES**

8-9:30	Allred	ML 103	Elementary German (3)	Allred	8-9:30
		ML 101	German Grammar and Prose Reading (3)		
8-9:30	Ballenger	ML 205	Spanish Prose (3)	Ballenger	8-9:30
10-20-11:50	Ballenger	ML 206	Spanish Prose (3)		
		ML 401	Introductory Scientific French (3)	Ballenger	10-20-11:50
10-20-11:50	Allred	ML 402	Introductory Scientific French (3)		
		ML 403	Introductory Scientific German (3)	Allred	10-20-11:50
		ML 404	Introductory Scientific German (3)		

PHILOSOPHY

1-30-3:00	Cole	PHI 201	Logic (3)	Cole	1-30-3:00
		PHI 205	Problems and Types of Philosophy (3)	Cole	10-20-11:50
8-9:30	Highfill	PHI 305	Philosophy of Religion (3)		
1-30-3:00	Bredenberg	PHI 306	Philosophy of Art (3)	Highfill	10-20-11:50
8-9:30, 10-20-11:50 or 1-30-3:00	Hicks, Highfill, Middleton	PHI 309	Marriage and Family Living (3)		
10-20-11:50	Bredenberg	PHI 395	Philosophical Analysis (3)		
8-9:30	Cole	PHI 401	Foundations of Science (3)		

PHYSICAL EDUCATION

Arranged	PE 101	Physical Education (1)	Staff	Arranged
Arranged	PE 102	Physical Education (1)	Staff	Arranged
Arranged	PE 201	Physical Education (1)	Staff	Arranged
Arranged	PE 202	Physical Education (1)	Staff	Arranged
Arranged	PE 301	Physical Education (1)	Staff	Arranged
Arranged	PE 302	Physical Education (1)	Staff	Arranged
Arranged	PE 303	Physical Education (1)	Staff	Arranged
Arranged	PE 304	Physical Education (1)	Staff	Arranged

Activities to be Offered

Angling: A course designed to teach the fundamentals of bait casting, fly casting, and spinning and the general knowledge necessary to angling.
 Badminton: A course designed to give the student a thorough knowledge of the fundamental strokes and a general knowledge of the history, rules, and basic strategy of the game.

Golf: A course designed to teach the skills and knowledge basic to the game of golf.

Softball: A course designed to include the fundamentals, history, and rules of the game.

Swimming: A general course designed to give the student competence in the four basic strokes and two dives.

Tennis: A course designed to give the student a thorough knowledge of the fundamental strokes and a general knowledge of the history, rules, and basic strategy of the game.

Volleyball: A course designed to include the fundamentals, history, and rules of the game.

Note: Courses numbered in the 300 series are elective for juniors and seniors.

POULTRY SCIENCE

IR 10 20 11 50, 1 B 1 30	Brown	PO 201	Chicken and Turkey Production (4)
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POLITICAL SCIENCE

8 9 30	Kelly	PS 201	The American Governmental System (3)
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PLANT PATHOLOGY

Arranged	PP 615	Research in Plant Pathology	Arranged	Arranged
Arranged	PP 617	Special Problems in Plant Pathology	Arranged	Arranged

1ST SESSION

2ND SESSION

Hours	Staff	Course Number	Course Name	Staff	Hours
PSYCHOLOGY					
8-9:30, 10:20-11:50, 12-1:30 or 1:30-3:00 1:30-3:00	Askren, Miller, Johnson Caffey	PSY 200	Introduction to Psychology (3)	Askren, Johnson	8-9:30, 10:20-11:50 12-1:30 or 1:30-3:00
1:30-3:00	Barkley	PSY 302	Psychology of Personality & Adjustment (3)		
8-9:30	Askren	PSY 304	Educational Psychology (3)		
9:10-10:10	Finnell	PSY 337	Industrial Psychology I (3)		
10:20-11:50	Johnson	PSY 410	Psychology of Safety (3)		
12-1:30	Barkley	PSY 476	Psychology of Adolescence (2)		
Arranged	Arranged	PSY 535	Tests and Measurements (3)		
8-9:30	Arranged	PSY 550	Mental Hygiene in Teaching (3)		
	Arranged	PSY 609	Psychological Clinic Practicum (3)		
	Arranged	PSY 610	Applied Implications of Theories of Learning (3)		
Arranged	Arranged	PSY 612	Seminar in Industrial Psychology (3)		
Arranged	Arranged	PSY 613	Research in Psychology (3)		

PHYSICS

LR 8-10:10, LB 1:30-3:40 TT LR 8-10:10 or 10:20-12:30, LB 1:30-3:40 MW or TT	Alter Lynn, Antonakas	PY 201 PY 202	General Physics (5) General Physics (5)	Dough, Chaplin	LR 10:20-12:30, LB 1:30- 3:40 MW or TT or 3:50- 6 TT
LR 8-9:30 or 10:20-11:50, LB 1:30-3:40 MW or TT or 3:50-6:00 TT	Chaplin, Dough	PY 211	General Physics (4)	Alter	LR 8-9:30, LB 1:30-3:40 MW
LR 8-9:30, LB 1:30-3:40 TT	Freye	PY 212	General Physics (4)		
LR 8-9:30, LB 1:30-3:40 MW	Brown	PY 215	General Physics (4)		
8-9:30	Waltner	PY 407	Introduction to Modern Physics (3)		
LR 10:20-11:50, LB 1:30- 3:40 TT	Waltner	PY 410	Nuclear Physics I (4)		
Arranged	Lynn	PY 670	Seminar (1)	Waltner	Arranged
Arranged	Staff	PY 690	Research (1-6)	Staff	Arranged

RECREATION

8-9:30	Hines	REC. 172 Introduction to Recreation (3)	Hines	8-9:30
8-9	Crawford	REC. 173 Aquatic Sports (2)	Stott	10:20-12:20
10:20-11:50	Hines	REC. 203 Individual Corrective Physical Education (2)	Hines	10:20-11:50
9-10-10:10	Crawford	REC. 253 Principles of Physical Education (3)		
10:20-11:20	Crawford	REC. 315 Prevention & Care of Athletic Injuries (2)		
		REC. 325 Activities for Handicapped Individuals (2)		
		REC. 353 Camp Organization and Leadership (3)	Stott	8-9, LB arr
Arranged	Miller	REC. 470 Supervised Practice (6)	Miller	Arranged
		REC. 472 Observation and Field Expansion (2)		

RELIGION

REL. 403	Religions of the World (3)	Highfill	8-9:30
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SOCIOLOGY

SOC. 202	Man and Society (3)		
SOC. 301	Human Behavior (3)		
SOC. 304	Contemporary Family Life (3)		
SOC. 401	Human Relations in Industrial Society (3)		

SOCIAL STUDIES

8-9:30 or 10:20-11:50	Halliday, Venturella	SS 301 Contemporary Civilization (3)	Place, Elliott	8-9:30 or 10:20-11:50
8-9:30 or 10:20-11:50	Collins, Venturella	SS 302 Contemporary Civilization (3)	McKean, Place	8-9:30 or 10:20-11:50
8-9:30 or 10:20-11:50	Gullette, Collins	SS 401 Contemporary Issues (3)	Lambert	8-9:30 or 10:20-11:50
10:20-11:50		SS 402 Contemporary Issues (3)	McKean	10:20-11:50

Hours

Staff

Course Name

Staff

Hours

TEXTILE CHEMISTRY

I.C. 301 Textile Chemistry II (3)

I.C. 302 Textile Chemistry II (3)

I.C. 421 Fabric Finishing I (2)

TEXTILES—FIBER AND YARN TECHNOLOGY

I.N. 101 Yarn Principles (2)

I.N. 201 Yarn Manufacture II (4)

I.N. 301 Yarn Manufacture III (4)

I.N. 411 Wool Manufacture I (3)

I.N. 425 Microscopy (1)

TEXTILES—FABRIC DEVELOPMENT

I.N. 151 Fabric Principles (2)

I.N. 251 Weaving II (3)

I.N. 261 Fabric Structure (3)

I.N. 351 Weaving III (3)

I.N. 361 Dobby Design I (3)

I.N. 451 Weaving IV (1)

I.N. 461 Dobby Design II (3)

TEXTILES—KNITTING

I.N. 241 Knitting I (3)

I.N. 341 Hosiery Manufacture (2)

ZOOLOGY

Z.O. 571 Advanced Wildlife Management, Special Studies (Arr)

Z.O. 581 Food Habits Problems (3)

Z.O. 611 Animal Ecology, Special Studies (Arr)

Z.O. 641 Research in Zoology (Arr)

SPECIAL PROGRAMS

AGRICULTURAL EXTENSION

JUNE 21 - JULY 12

North Carolina State College offers a special three-week training program for Extension workers. The program, established at the request of the Extension workers, is designed to give them an opportunity to pursue courses of study that will improve their ability in their chosen fields of endeavor.

Extension workers in agriculture and home economics participating in this program are enrolled in the School of Agriculture. A certificate of achievement is awarded each student completing two subjects with a grade of B or better.

Each person participating in the program will have an advisory committee to help select subjects and assist with other student problems. The College Library and the various departmental libraries are available to Extension workers enrolled in the program.

Further information and applications for enrollment may be obtained from F. S. Sloan, State Program Leader, North Carolina State College, Raleigh, N. C.

SOUTHERN REGIONAL GRADUATE SUMMER

SESSIONS IN STATISTICS (BLACKSBURG, VA)

JUNE 12 - JULY 20

North Carolina State College in conjunction with the Virginia Polytechnic Institute, Oklahoma Agricultural and Mechanical College, and the University of Florida, have agreed to operate a continued program of graduate summer sessions in statistics to be held at each institution in rotation. The 1956 program was held at North Carolina State College. The 1957 session will be held at the Virginia Polytechnic Institute in Blacksburg, Virginia.

The graduate program is designed to serve statisticians, research workers, teachers of statistics, marine scientists, engineers, biologists, social scientists, physical scientists, and mathematicians. Each of the sponsoring institutions will accept the credits earned by students during the summer sessions. Courses are arranged to provide consecutive work in successive summers so that those who wish can complete the course work for a master's degree in statistics within three summers. The advanced courses will be accepted as part of the Ph. D. program.

The faculty for the graduate program includes outstanding statisticians and mathematicians from the United States, Canada, England, and Australia.

All inquiries and applications for enrollment should be directed to:

Boyd Harshbarger, Department of Statistics, Virginia Polytechnic Institute, Blacksburg, Virginia.

Nuclear Energy Fundamentals for Industry is a special program for industrial personnel presented by the Physics Staff of North Carolina State College and a group of guest lecturers.

The purpose of the program is to make available to engineering and industrial personnel a short course in Nuclear engineering with emphasis on nuclear power developments, reactor theory and design, chemical processing, safety and health aspects, and the fundamentals of nuclear physics.

The visiting staff will include:

J. A. Lane, Oak Ridge National Laboratory
M. C. Edlund, Babcock and Wilcox Company
Karl Z. Morgan, Oak Ridge National Laboratory
M. D. Peterson, Vanderbilt University
C. R. Russell, General Motors Corporation
A. M. Perry, Oak Ridge National Laboratory

The Physics staff from the College will include:

E. J. Brown
H. A. Lamonds
J. G. Lundholm Jr.
J. T. Lynn
A. C. Menius Jr.
R. L. Murray
A. W. Waltner

The tuition of \$500.00 for the four-week course includes the lectures, seminars, and reactor demonstrations.

All inquiries and applications for enrollment should be directed to: David B. Stansel, College Extension Division, N. C. State College, Raleigh, N. C.



Interior of the College's Nuclear Reactor

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11	Primrose Hall
12	Syme Hall
13	Y.M.C.A.
14	Leazer Hall
15	Tompkins Hall
16	Field House
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18	Ceramics
19	Power Plant
20	Laundry
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POWER LINE

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DUNN AVENUE

STADLER FARMWAY

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POGUE

GARDNER

BROOKS

LOGAN COURT CHAMBRAY LANE

CHAMBRAY LANE

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